

# SERVICE MANUAL



# T 773

AV Receiver

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AV Receiver

# SAFETY INFORMATION

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THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:  
(1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE,  
(2) THIS DEVICE MUST ACCEPT INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRABLE OPERATION.

**NAD ELECTRONICS INTERNATIONAL**  
633 GRANITE COURT, PICKERING, ON, CANADA L1W 3K1

**MODEL** T 773 A/V SURROUND SOUND RECEIVER

**POWER RATING** 120V 60Hz 8.5A ~

CUSTOM MANUFACTURED TO NAD SPECIFICATIONS  
IN THE PEOPLE'S REPUBLIC OF CHINA

**AH VERSION**

**NAD ELECTRONICS INTERNATIONAL**

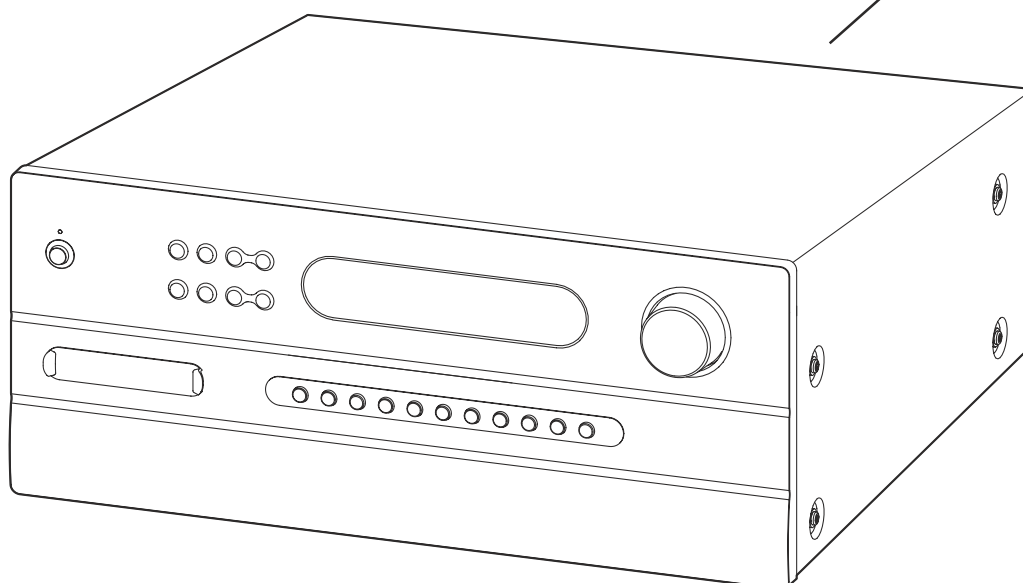
**MODEL** T 773 A/V SURROUND SOUND RECEIVER

**POWER RATING** 230V 50Hz 4.5A ~

CUSTOM MANUFACTURED TO NAD SPECIFICATIONS  
IN THE PEOPLE'S REPUBLIC OF CHINA

**C VERSION**

 **CAUTION**  
RISK OF ELECTRIC SHOCK  
DO NOT OPEN   
**WARNING: SHOCK HAZARD-DO NOT OPEN**  
**AVIS: RISQUE DE CHOC ELECTRIQUE-NE PAS OUVRIR**







# SERVICE SAFETY PRECAUTIONS

## 1. Replacing the fuses

### CAUTION:

FOR CONTINUED PROTECTION AGAINST THE RISK OF FIRE REPLACE ONLY WITH SAME TYPE OF FUSE.

Reference Designator	Part Number	Description
F751*AH 	33-0321111-00-88	FUSE 20A/250VAC SLOW BLOW 6X32mm 6S UL/CSA
F751*C 	33-0161006-00-88	FUSE 10A/250VAC TIME-LAG 5X20mm 5D VDE/UL/CSA
F752*AH 	33-0111006-00-88	FUSE 1.6A 250V TIME LAG 5x20mm 5T UL/CSA/VDE/SEMCO
F752*C 	33-0151006-00-88	FUSE 800mA 250V TIME LAG 5x20mm 5T UL/CSA/VDE/SEMCO

### NOTE:


<\*AH > : USA, CANADIAN MODEL ONLY.

<\*C > : EUROPEAN MODEL ONLY.

## 2. Safety check out

(Only U.S.A. model)

Before returning the product to the customer, make leakage current or resistance measurements to determine that exposed parts are acceptably insulated from supply circuit.

Parts marked with the symbol  are critical with regard to the risk of fire and electric shock.  
Replace only with parts recommended by the manufacturer.

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# SPECIFICATIONS

## POWER AMPLIFIER SECTION

Rated distortion	(Rated power level into 8 ohms, THD 20 Hz-20 kHz FL/C/FR) (Rated power level into 8 ohms, THD 20 Hz-20 kHz SL/SR/BS)	$\leq 0.1 \%$ $\leq 0.1 \%$
Input Sensitivity	(ref. 8 ohms, 1 kHz)	$166 \pm 20 \text{ mV}$
S/N Ratio	(A-wtd, 1kHz, 1 W, 8 ohm, SL/SR/BL)	$\geq -72 \text{ dB}$
Frequency Response	(20 Hz - 20 kHz)	$0 \pm 1.0 \text{ dB}$
Channel Balance	(1 dB to -40 dB, 1 kHz) (-41 dB to -50 dB, 1 kHz)	$\leq 2 \text{ dB}$ $\leq 3 \text{ dB}$
Audio muting at 1 kHz		$\geq 55 \text{ dB}$
Subwoofer out, 500 mV in	(THD at 2 V O/P, 100 Hz)	$\leq 0.5 \%$
Crosstalk	(500 mV input, 10 W, 1 kHz)	$\geq -57 \text{ dB}$
<b>Controls</b>		
Bass	(at 500 mV in, 1 W out, 100 Hz)	$\pm 10 \text{ dB} \pm 2 \text{ dB}$
Treble	(at 500 mV in, 1 W out, 10 kHz)	$\pm 10 \text{ dB} \pm 2 \text{ dB}$

## DOLBY DIGITAL SECTION

Channel Difference(FL ref. Track 30)		$\pm 1.2 \text{ dB}$
Frequency Response at Dolby config.2	SL Track 46 200 - 20 kHz SR Track 47 200 - 20 kHz C Track 44 200 - 20 kHz	$\pm 0.8 \text{ dB}$ $\pm 0.8 \text{ dB}$ $\pm 0.8 \text{ dB}$
Harmonic Distortion	(1 W, Audio LPF, Dolby Congfig 1) FL Track 65 997 Hz FR Track 67 997 Hz SL Track 68 997 Hz SR Track 69 997 Hz C Track 66 997 Hz	$\leq 0.08 \%$ $\leq 0.08 \%$ $\leq 0.08 \%$ $\leq 0.08 \%$ $\leq 0.08 \%$
S/N Ratio	(TRACK 30 for O/P 1 W, FAUSE) CCIR / ARM Audio LPF A-WTD	$\geq 65 \text{ dB}$ $\geq 70 \text{ dB}$ $\geq 70 \text{ dB}$
Channel Separation	(1 W, A-WTD FILTER) Track 65 997 Hz	$\geq 60 \text{ dB}$

## DOLBY PRO LOGIC II SECTION

### Frequency Response

I/P mode : L, R	: 1 V in, 1 W, Ch L/R	40 Hz 20 kHz	$0 \pm 2.0 \text{ dB}$ $0 \pm 2.0 \text{ dB}$
I/P mode : L=R	: 1 V in, 1 W, Ch /L/R Ch C	40 Hz 20 kHz	$0 \pm 2.0 \text{ dB}$ $0 \pm 2.0 \text{ dB}$
I/P mode : L=-R	: 1 V in, 1 W, Ch SL/SR	40 Hz 20 kHz	$0 \pm 2.0 \text{ dB}$ $0 \pm 2.0 \text{ dB}$
S/N Ratio (200 mV in, 1 W, A-WTD w/ 1 k termination)			
I/P mode : L, R	: 1 kHz, Ch L/R		$\geq 65 \text{ dB}$
I/P mode : L=R	: 1 kHz, Ch C		$\geq 65 \text{ dB}$
I/P mode : L=-R	: 1 kHz, Ch SL/SR		$\geq 65 \text{ dB}$
THD (2.2 V in, 1 W, w/ 80 kHz LPF, 1 kHz)			$\leq 0.2 \%$



## **DTS SECTION**

Output Level (Vol 0 dB)	: FL/FR/C/SL/SR	Track 6	1 kHz	<b>0.3 ± 1.3 W</b>
Channel Difference (FL ref):	FL/FR/C/SL/SR	Track 6	1 kHz	<b>± 1.0 dB</b>
Harmonic Distortion (Audio Filter)	: FL/FR/C/SL/SR	Track 10-14	1 kHz	<b>≤ 0.08 %</b>
Frequency Response (20 Hz to 20 kHz)		Track 26-30		<b>+2/-1.5 dB</b>
Subwoofer Output Level	1 kHz ref at pre-out (FL)	Play Track 10, charge to 15		<b>12.5 ± 1.5 dB</b>

## **AM TUNER SECTION**

Input level is expressed as the reading in open circuit of 75-ohm source impedance signal generator

Usable sensitivity	(999/1000 kHz)	<b>≤ 30 dBuV</b>
S/N Ratio	(5 mV in)	<b>≥ 38 dB</b>
THD	(5 mV in)	<b>≤ 3 %</b>
IF Rejection	(450 kHz)	<b>≥ 36 dB</b>
Image Rejection	(F+2xIF)	<b>≥ 28 dB</b>
Selectivity		<b>≥ 17 dB</b>
Output		<b>170 -20/+30 mV</b>
Loop sensitivity	(20 dB S/N)	
	999/1000 kHz	<b>≤ 66 dB</b>
	603/600 kHz	<b>≤ 66 dB</b>
	1404/1400 kHz	<b>≤ 66 dB</b>
Frequency Response	(100 - 2.3 kHz, 5 mV)	<b>± 6 dB</b>

## **FM TUNER SECTION**

**\*C**

**\*AH**

Input level is expressed as the reading in open circuit of 75-ohm source impedance signal generator

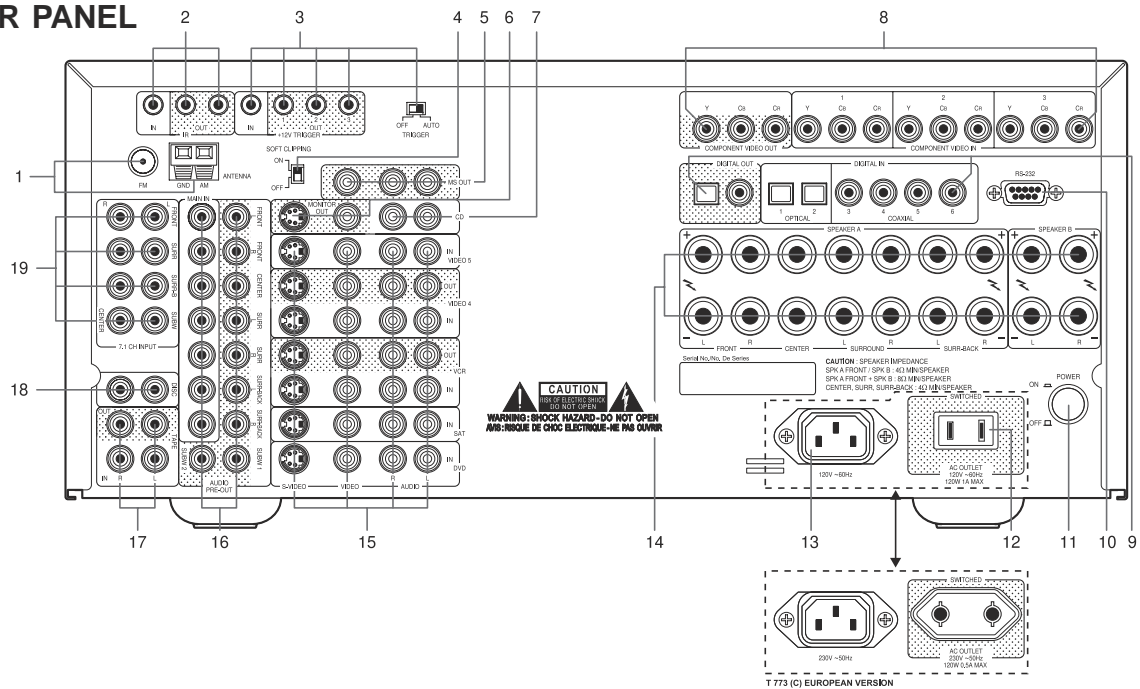
Usable sensitivity	(98 MHz)		<b>≤ 15 dBμV</b>	<b>≤ 15 dBuV</b>
S/N Ratio	(60 dB, IHF wtd)	Mono	<b>≥ 63 dB</b>	<b>≥ 63 dB</b>
		Stereo	<b>≥ 63 dB</b>	<b>≥ 63 dB</b>
Frequency Response	(20 Hz - 15 kHz, 60 dBμ)		<b>0 ± 1.5 dB</b>	<b>0 ± 1.5 dB</b>
Channel Separation	(60 dBμ)	100 Hz	<b>≥ 30 dB</b>	<b>≥ 30 dB</b>
		1 k	<b>≥ 38 dB</b>	<b>≥ 38 dB</b>
		10 kHz	<b>≥ 30 dB</b>	<b>≥ 30 dB</b>
Alternate Channel Selectivity (40 dBμ, ± 400 kHz)			<b>≥ 60 dB</b>	<b>≥ 45 dB</b>
Capture Ratio	(40 dBμ)		<b>≤ 3 dB</b>	<b>≤ 3 dB</b>
AM Suppression (60 dBμ, 100% Mod. FM, 30% Mod. AM)			<b>≥ 48 dB</b>	<b>≥ 48 dB</b>
Image Rejection	(119.4 MHz)		<b>–</b>	<b>≥ 65 dB</b>
I.F. Rejection	(10.7 MHz)		<b>≥ 78 dB</b>	<b>–</b>
Pilot Suppression	(98 MHz)		<b>≥ 60 dB</b>	<b>≥ 60 dB</b>
THD (60 dBμ, L=R 75 kHz for AH, 40 kHz Dev for C)		Mono	<b>≤ 0.25 %</b>	<b>≤ 0.25 %</b>
		Stereo	<b>≤ 0.35 %</b>	<b>≤ 0.35 %</b>
Auto-Search Sensitivity		On	<b>≥ 24 dBμ</b>	<b>≥ 24 dBμ</b>
		Off	<b>≤ 15 dBμ</b>	<b>≤ 15 dBμ</b>
RDS decode Sensitivity			<b>≤ 26 dBμ</b>	<b>–</b>

## **PHYSICAL SPECIFICATIONS**

Dimensions (Width x Height x Depth)	<b>435 x 195 x 423 mm</b>
Net Weight	<b>24 Kg (52.80 lbs)</b>
Shipping Weight	<b>30.7 Kg (67.50 lbs)</b>

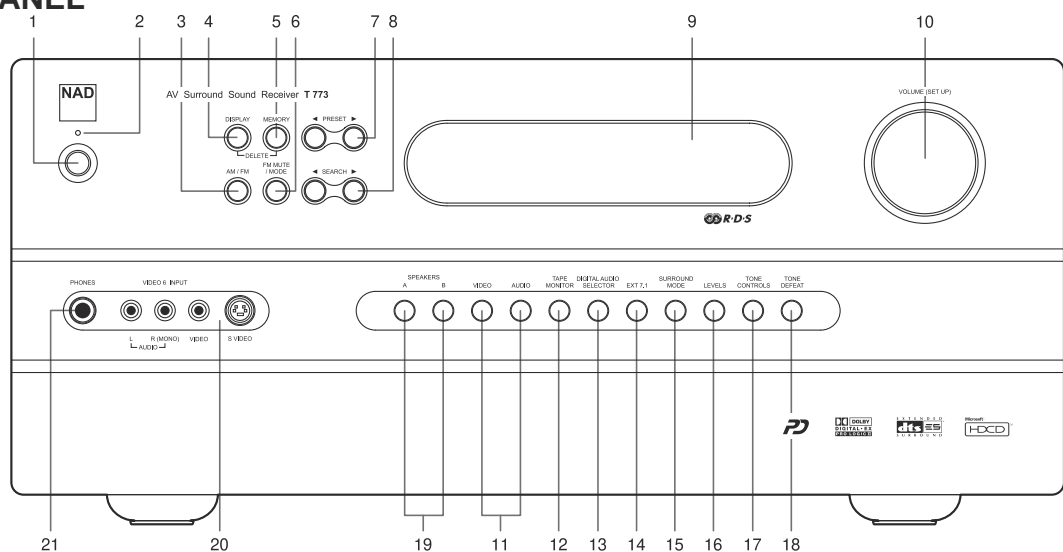
# REAR PANEL / FRONT PANEL VIEW

## REAR PANEL



- |   |  |
|---|--|
| 1. FM & AM ANTENNA                            | 10. RS-232                                   |
| 2. IR INPUT & OUTPUT                          | 11. POWER SWITCH                             |
| 3. +12V TRIGGER INPUT & OUTPUT                | 12. SWITCHED AC OUTLETS                      |
| 4. SOFT CLIPPING ON/OFF                       | 13. AC POWER INLET                           |
| 5. MS OUT (MULTISOURCE OUT)                   | 14. SPEAKERS A & B                           |
| 6. MONITOR OUT                                | 15. DVD, SAT, VCR, VIDEO 4 & VIDEO 5         |
| 7. CD INPUT                                   | 16. MAIN IN / AUDIO PRE-OUTS / SUBWOOFER OUT |
| 8. COMPONENT VIDEO IN & COMPONENT VIDEO OUT   | 17. TAPE INPUT & OUTPUT                      |
| 9. DIGITAL AUDIO INPUT & DIGITAL AUDIO OUTPUT | 18. DISC INPUT                               |
|   | 19. 7.1 CH. INPUTS                           |

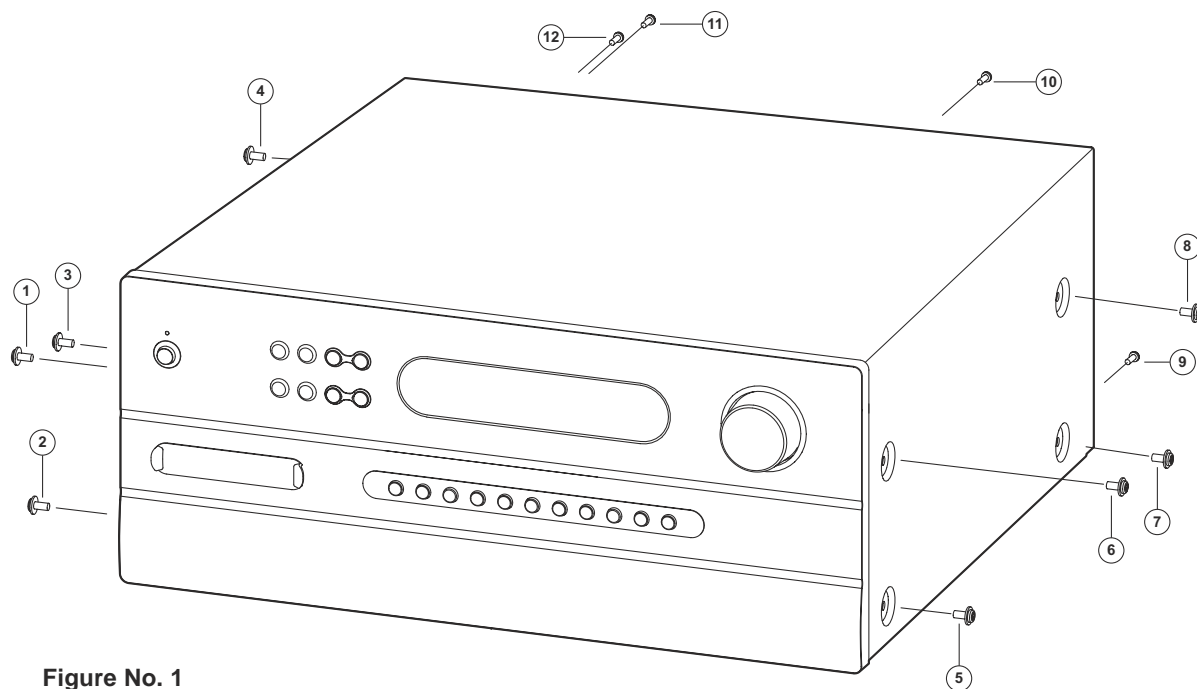
## FRONT PANEL



- |                     |                            |                    |
|---------------------|----------------------------|--------------------|
| 1. STANDBY SWITCH   | 8. SEARCH DOWN / UP        | 15. SURROUND MODE  |
| 2. STANDBY LED      | 9. VFL DISPLAY             | 16. LEVELS         |
| 3. AM / FM          | 10. VOLUME (SETUP)         | 17. TONE CONTROLS  |
| 6. FM MUTE / MODE   | 11. VIDEO & AUDIO          | 18. TONE DEFEAT    |
| 4. DISPLAY          | 12. TAPE MONITOR           | 19. SPEAKERS A & B |
| 5. MEMORY           | 13. DIGITAL AUDIO SELECTOR | 20. VIDEO 6 INPUT  |
| 7. PRESET DOWN / UP | 14. EXT. 7.1               | 21. PHONES         |

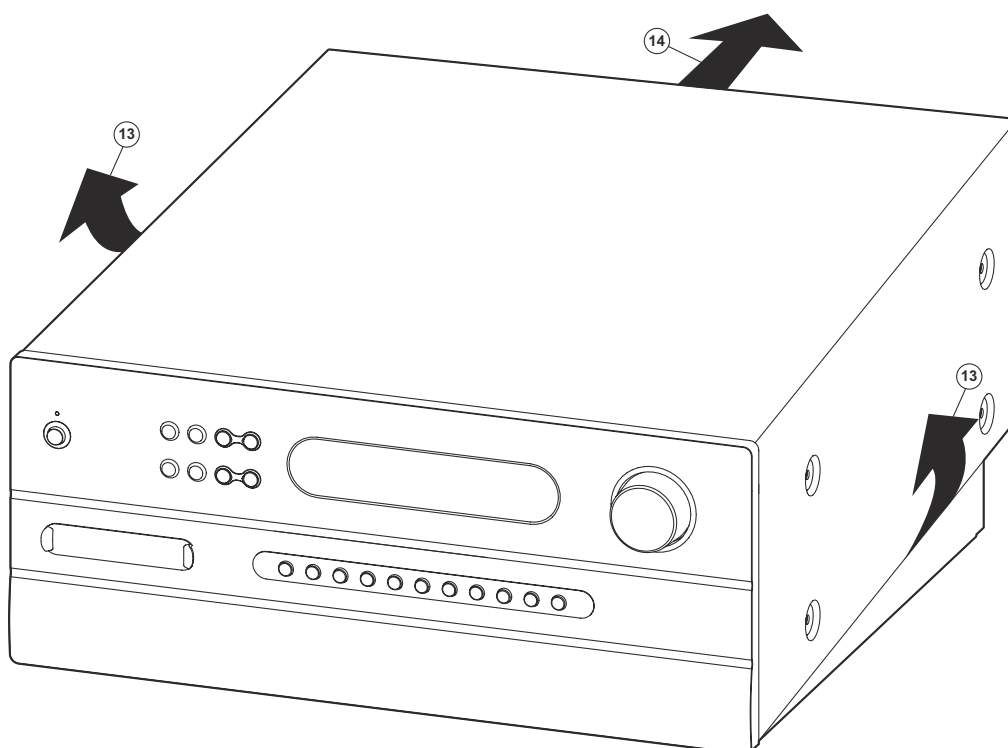
# DISASSEMBLY INSTRUCTIONS

1. Remove machine screws M4.0 x 8.0 (1 to 8) from the side panels.  
Remove tapping screw 3.0 x 8.0 (9 to 12) from the back panel.  
Refer to **Figure No. 1**.



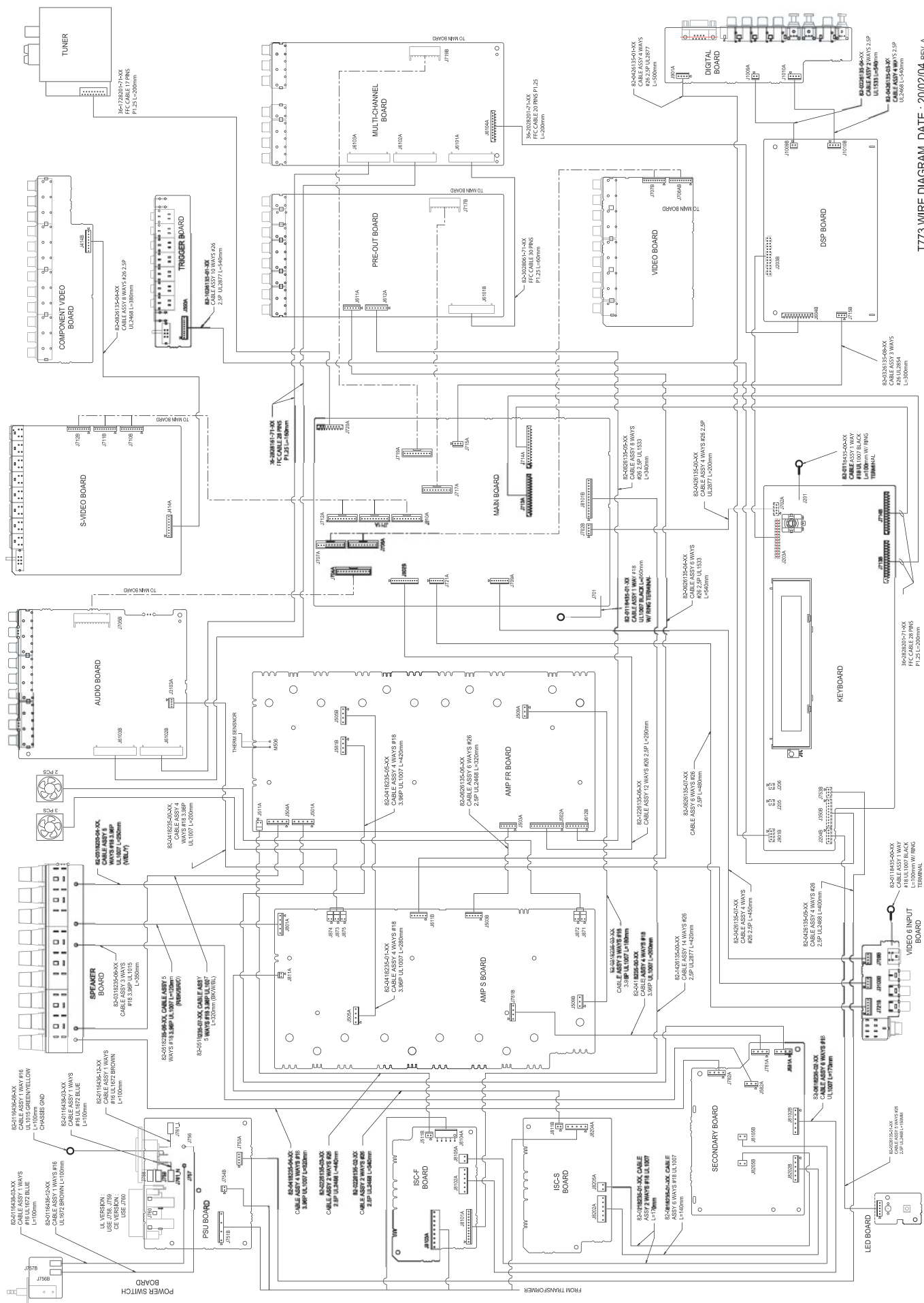
**Figure No. 1**

2. Pull both sides of the TOP COVER slightly outwards **13** and tilt approx. 35 ° and then remove in the direction as indicated by the arrow **14**. Refer to **Figure No. 2**.



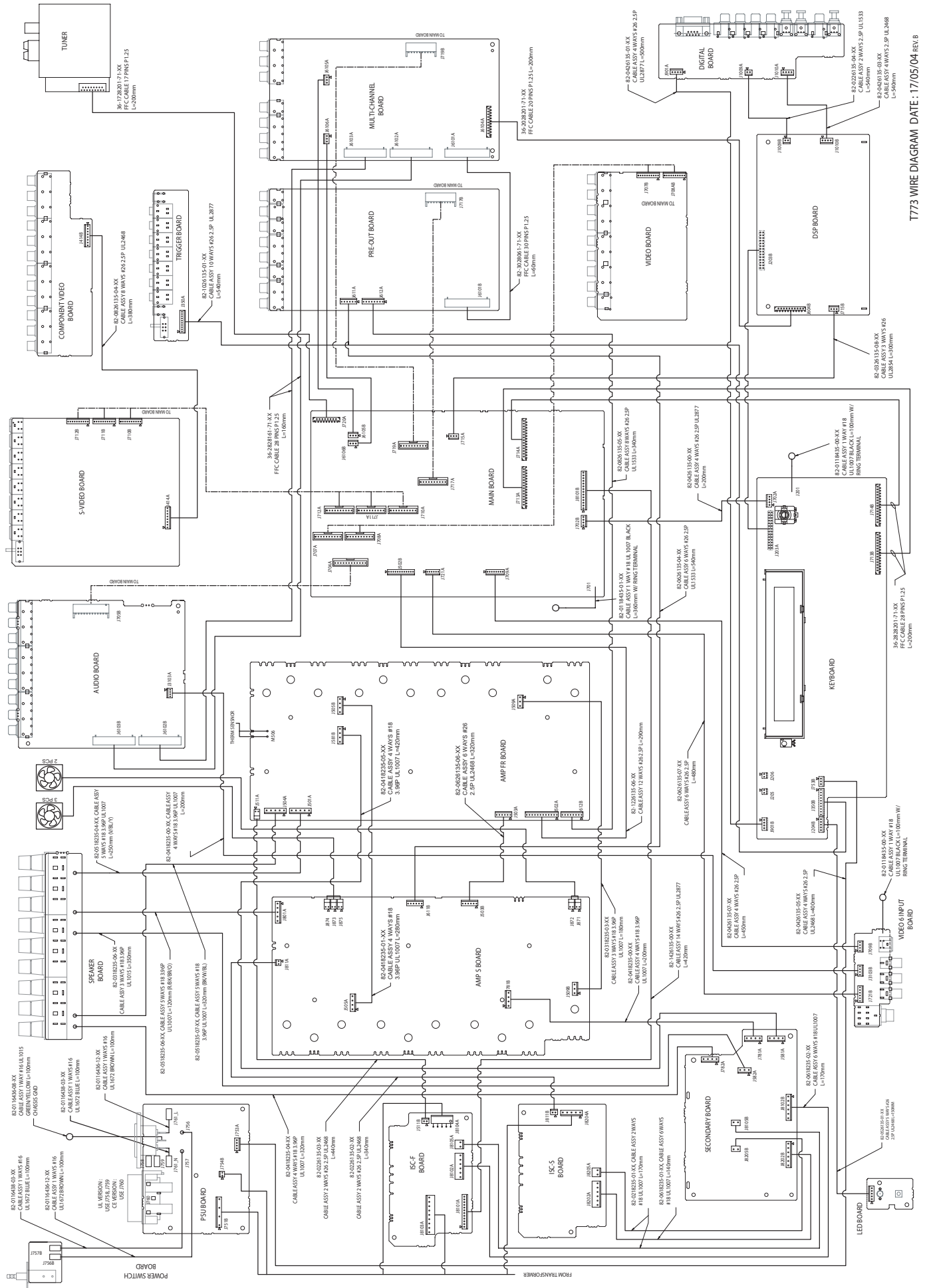
**Figure No. 2**

## WIRING DIAGRAM



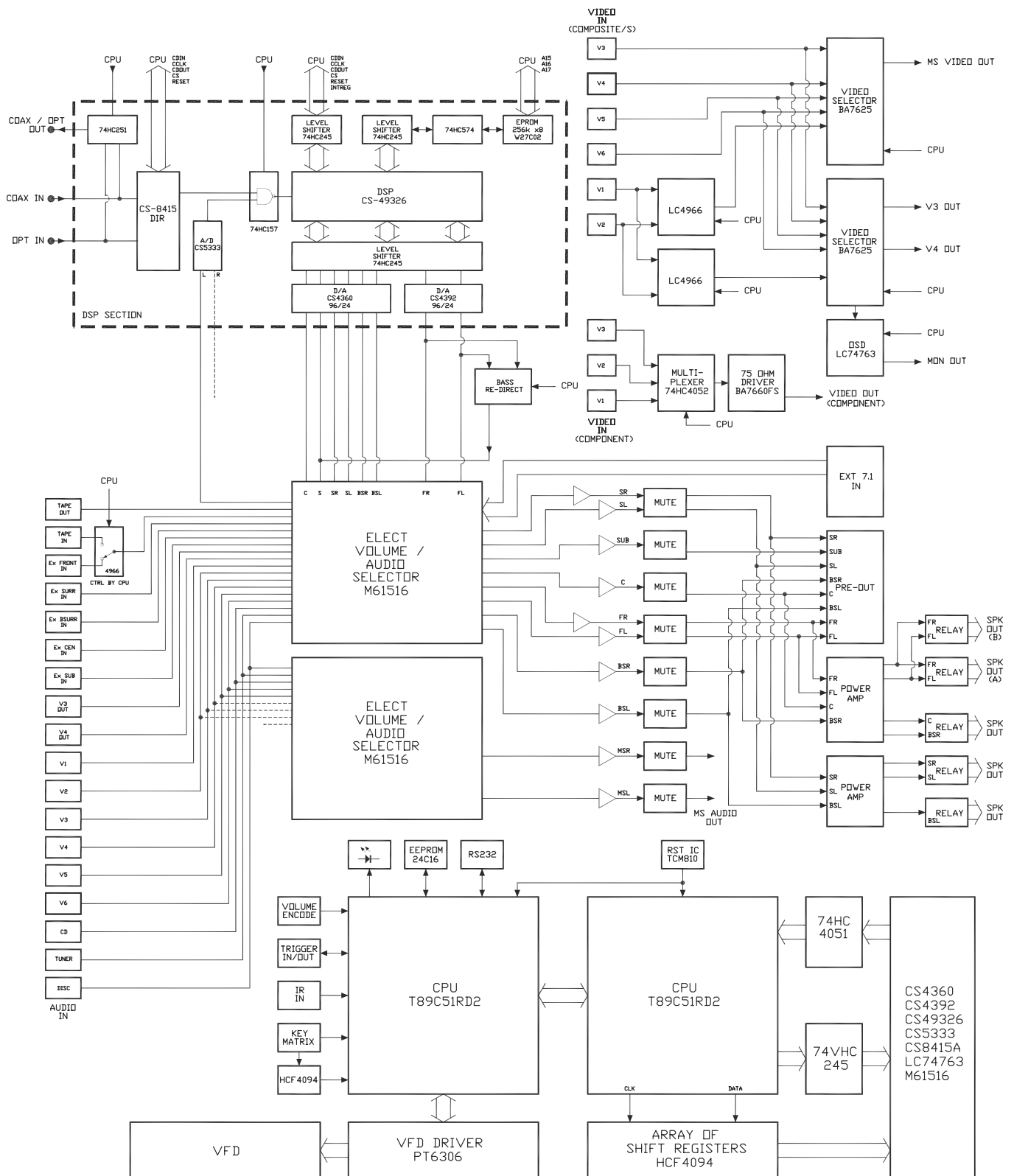
T773 WIRE DIAGRAM DATE : 20/02/04 REV. A

# WIRING DIAGRAM



T773 WIRE DIAGRAM DATE : 17/05/04 REV B

# BLOCK DIAGRAM



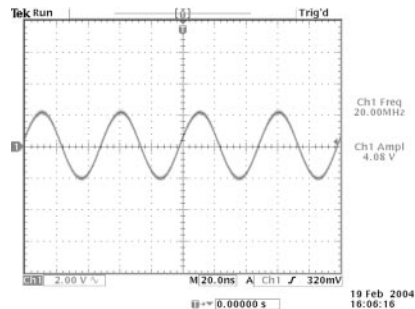
T773 Block Diagram  
Issue : 01

## SPECIAL FUNCTION

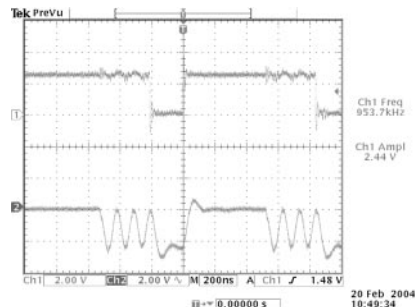
FEATURE	KEYS PRESS ON FRONT PANEL
RESET FOR AH VERSION RESET FOR C VERSION NTSC / PAL SELECTION VFD ALL DISPLAY AM FREQ. STEP	VIDEO + TONE DEFEAT VIDEO + TONE CONTROLS VIDEO + MEMORY AUDIO + TAPE MONITOR AM/FM + FM MUTE

## DETAILS & WAVEFORMS ON SYSTEM TEST & DEBUGGING

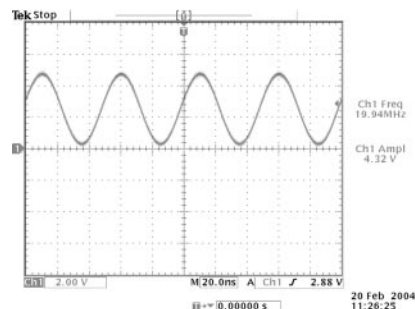
T89C51RD2 (U202) main clock is at 20MHz (X202)



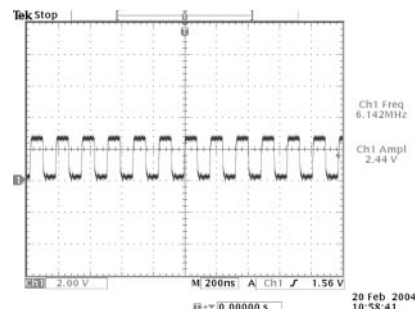
UPPER - OUTPUT ENABLE (pin 24) of EPROM (W27C02) when changing SURROUND MODES  
LOWER - CHIP ENABLE (pin 22) of EPROM (W27C02) when changing SURROUND MODES



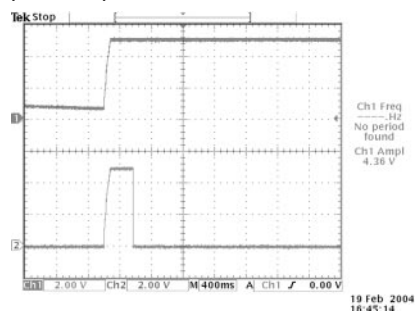
T89C51RD2 (U201) main clock is at 20MHz (X201)



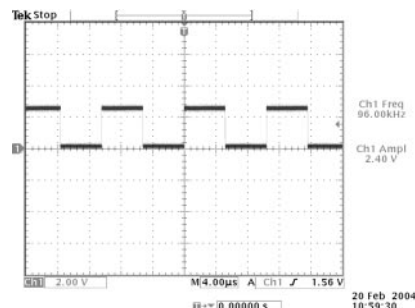
SCLK (pin 43 of CS49326)



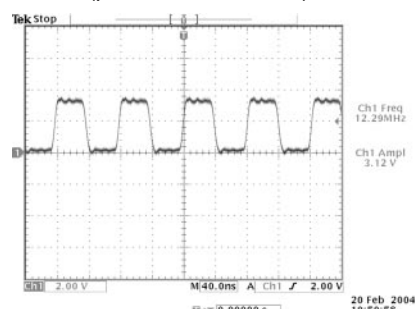
UPPER - +5V supply to KEYBOARD when power up  
LOWER - RESET line (TCM810LENB713) when power up



LRCLK (pin 42 of CS49326)

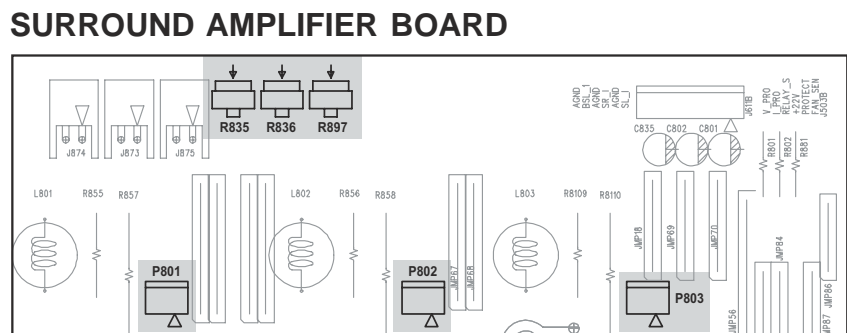


MCLK (pin 30 of CS49326)



**NOTE:** The waveforms are based on software version V1.26.





## Idle Current

- (IN FRONT POWER AMP PCB)**

(IN SURROUND POWER AMP PCB)

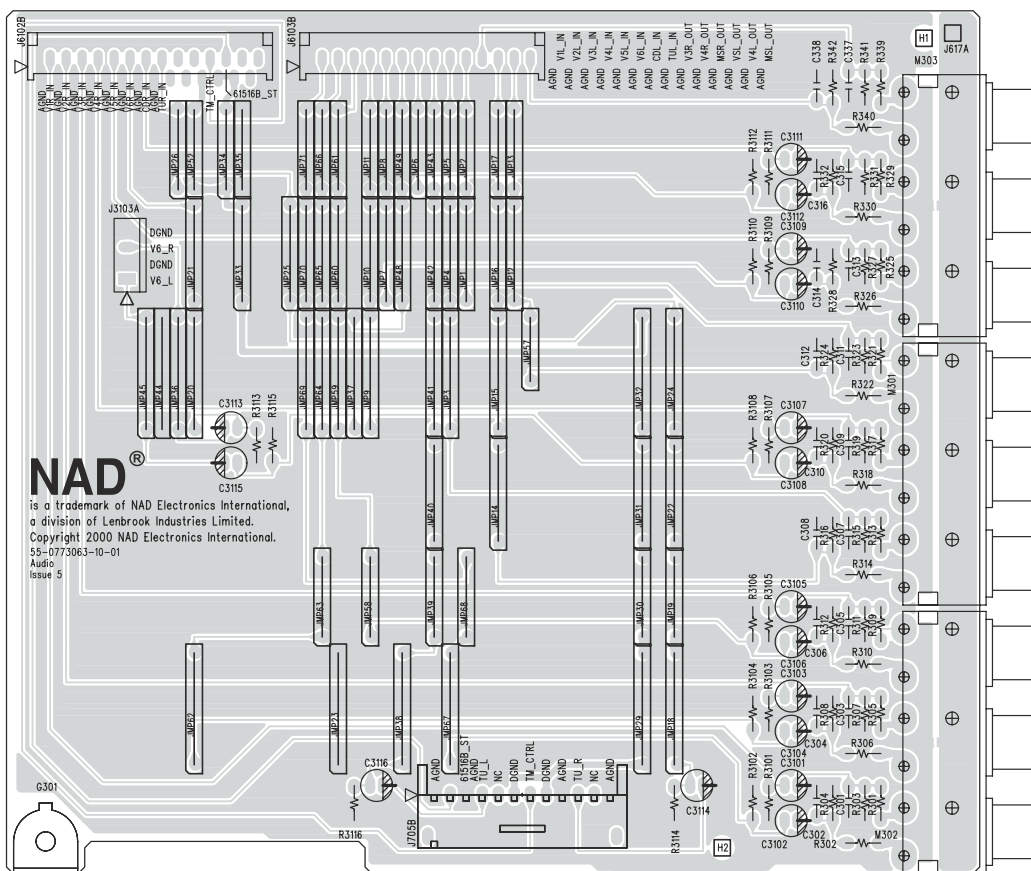
11a



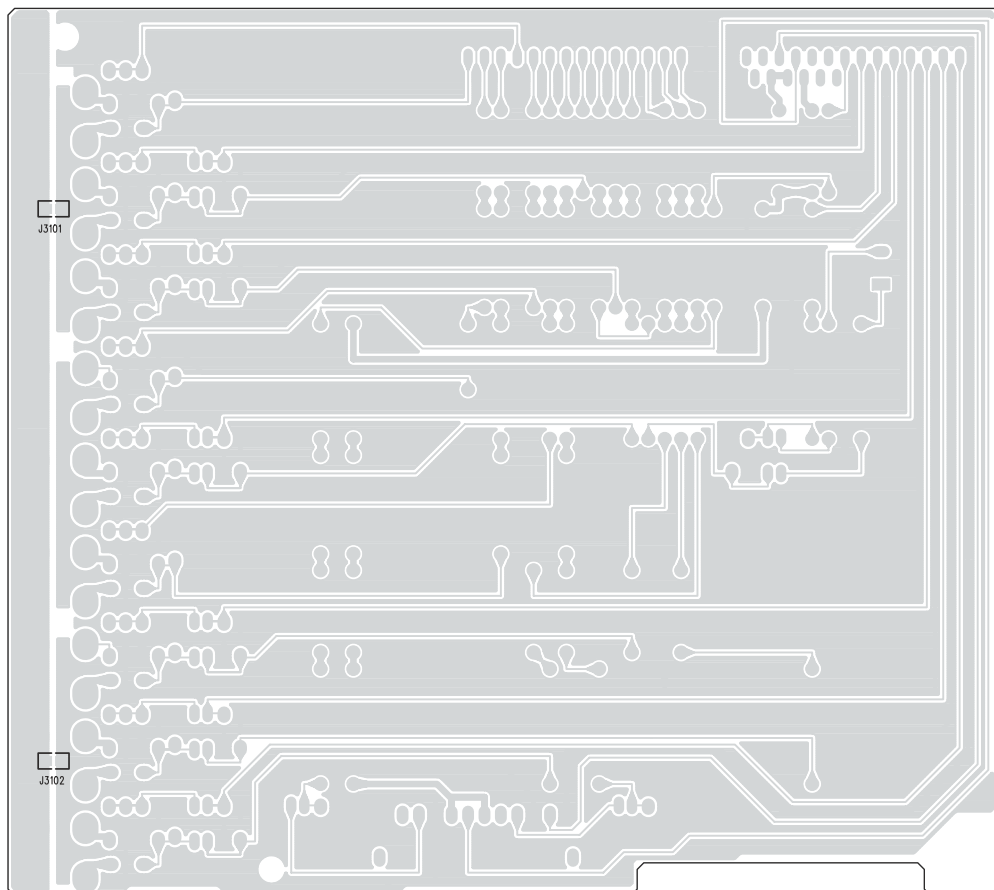
## **ISC Sensitivity Adjustment**

1. Connect 8 ohm loading to all channels.
2. Rotate R8203 fully clockwise.
3. Load all channels at full power using 1kHz sine wave.
4. At this time, monitor the THD of the SL,SR,BS (L&R) output. Clipping should occur before full power achieved.
5. Rotate R834 counter-clockwise slowly until the THD just below 0.1%.
6. Repeat step 2-5 for R8103 but monitor FL, FR & Center output.
7. The procedure is finish at this step.
8. Load all channels at full power using 1kHz sine wave with 4 ohm load.
9. The clipping power(at THD 0.1%) should less than 100W for the T773.

## AUDIO BOARD - COMPONENT SIDE

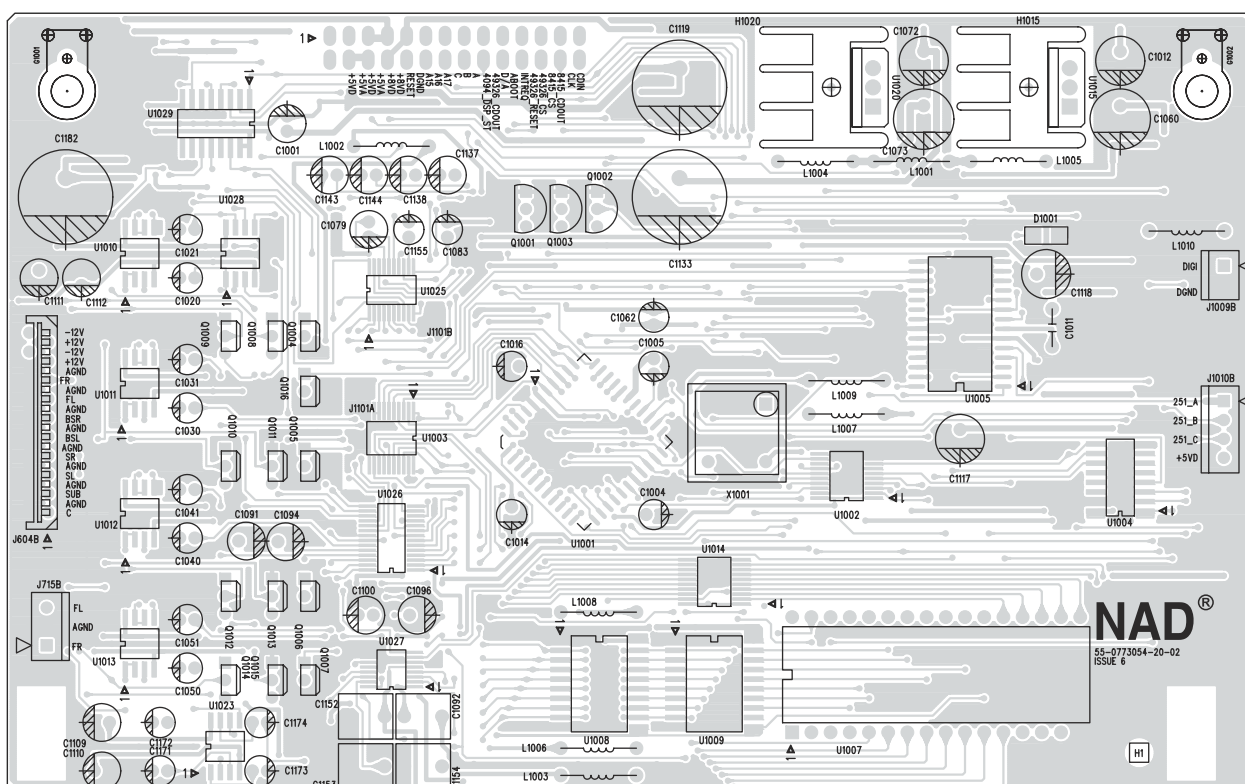


## AUDIO BOARD - COPPER SIDE

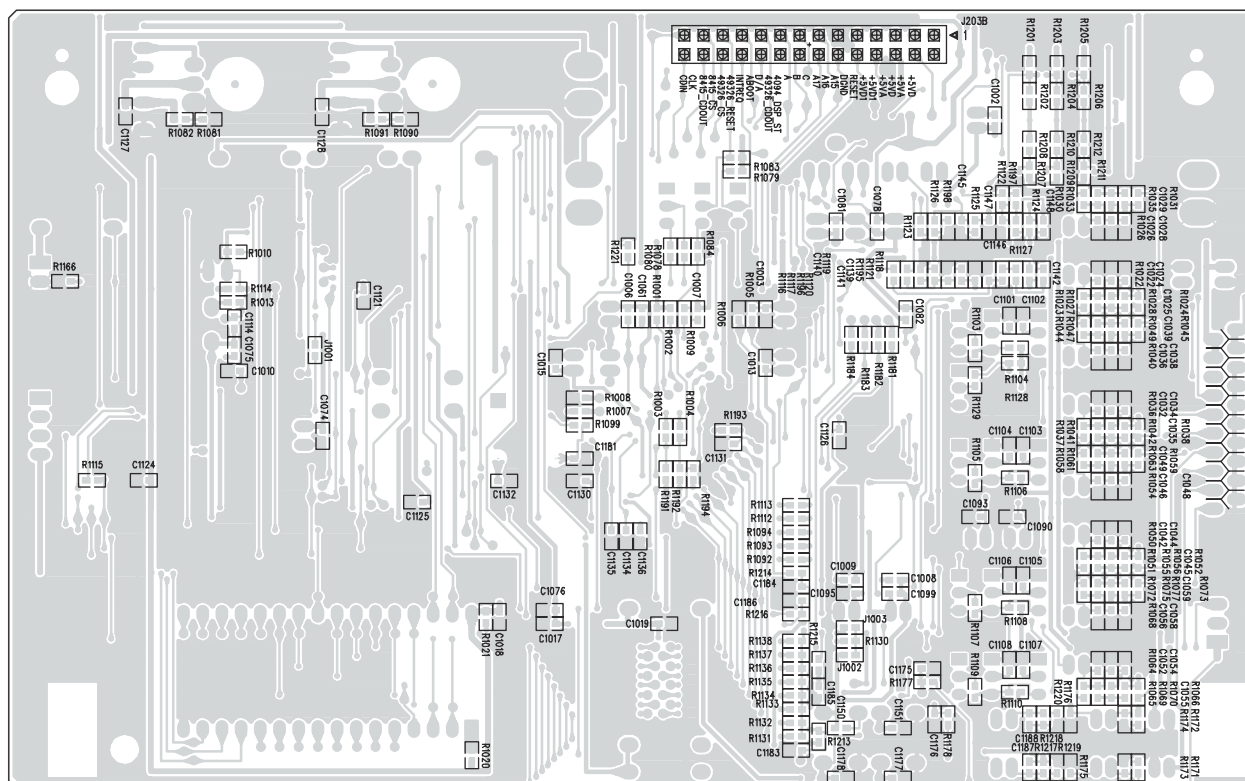




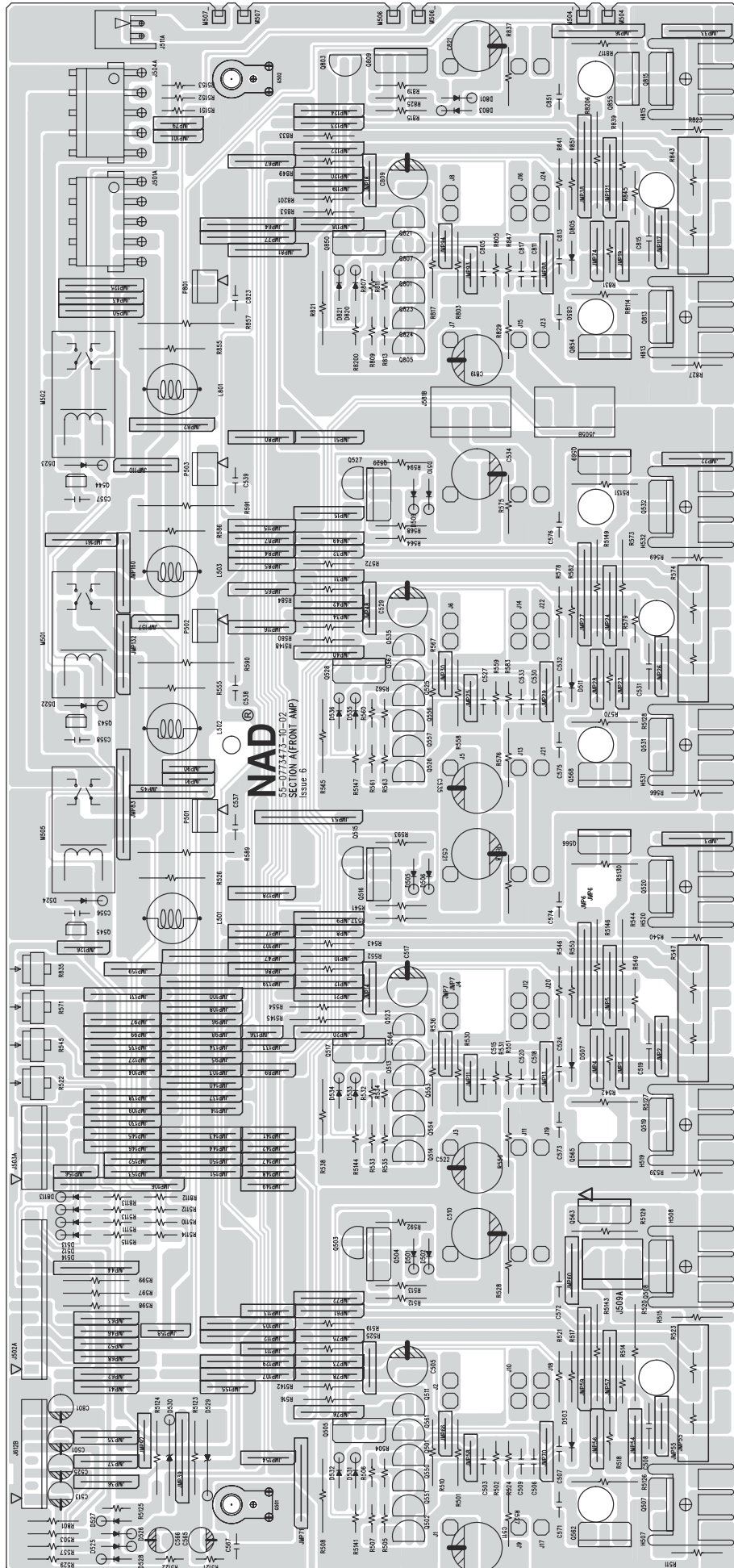
## DSP BOARD - COMPONENT SIDE



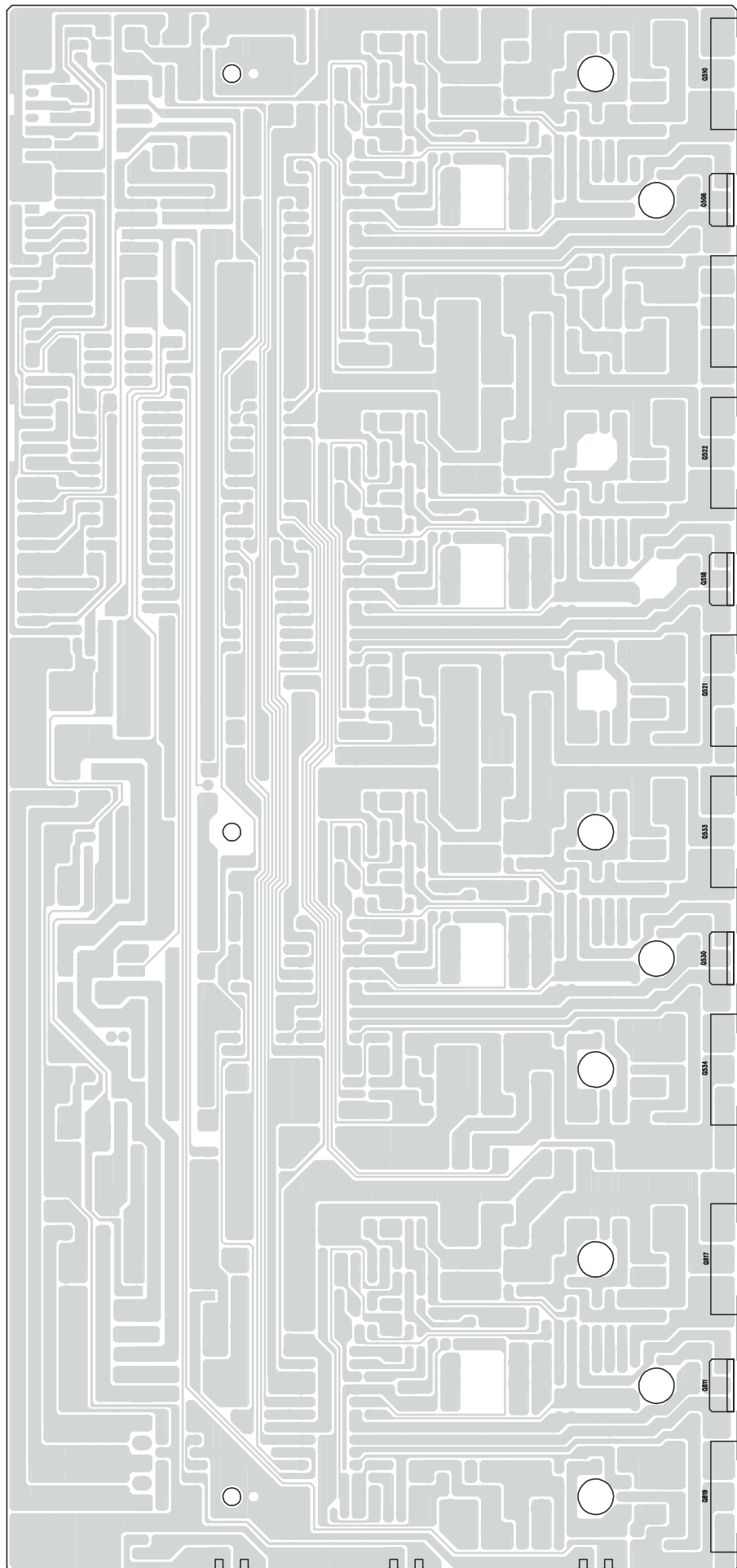
## DSP BOARD - COPPER SIDE



# FRONT/CENTER AMPLIFIER BOARD - COMPONENT SIDE

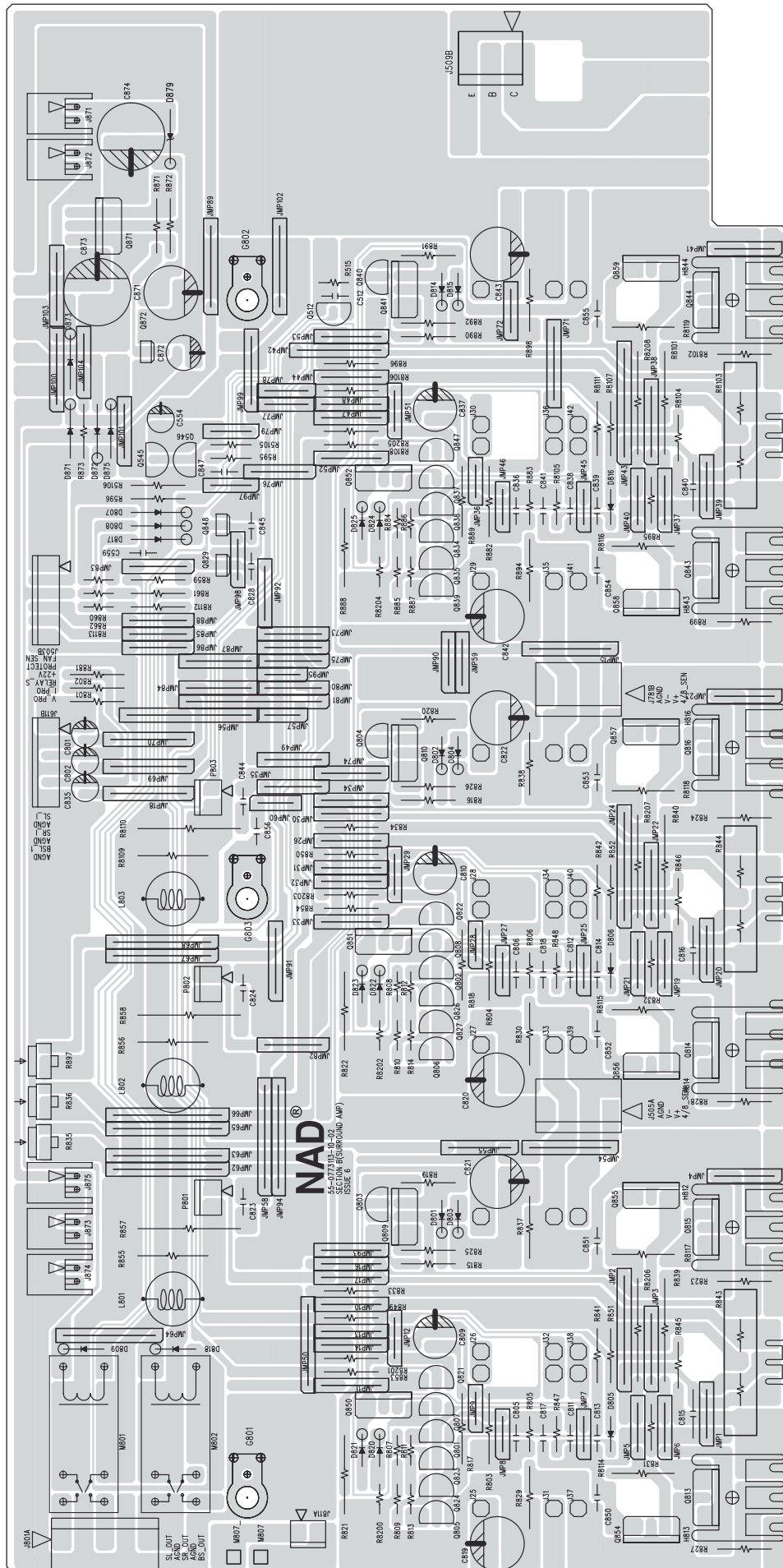


## FRONT/CENTER AMPLIFIER BOARD - COPPER SIDE

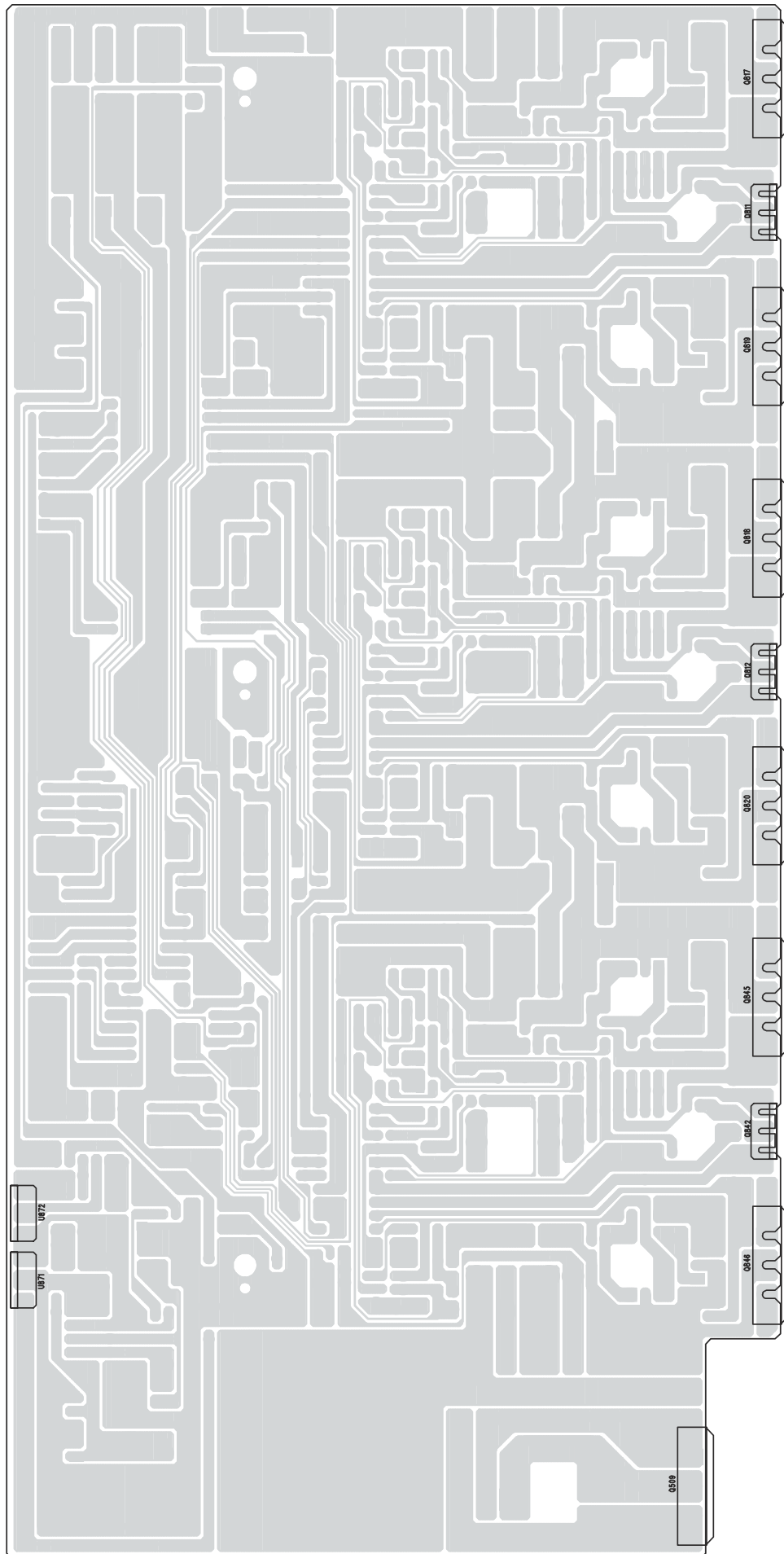




# SURROUND AMPLIFIER BOARD - COMPONENT SIDE

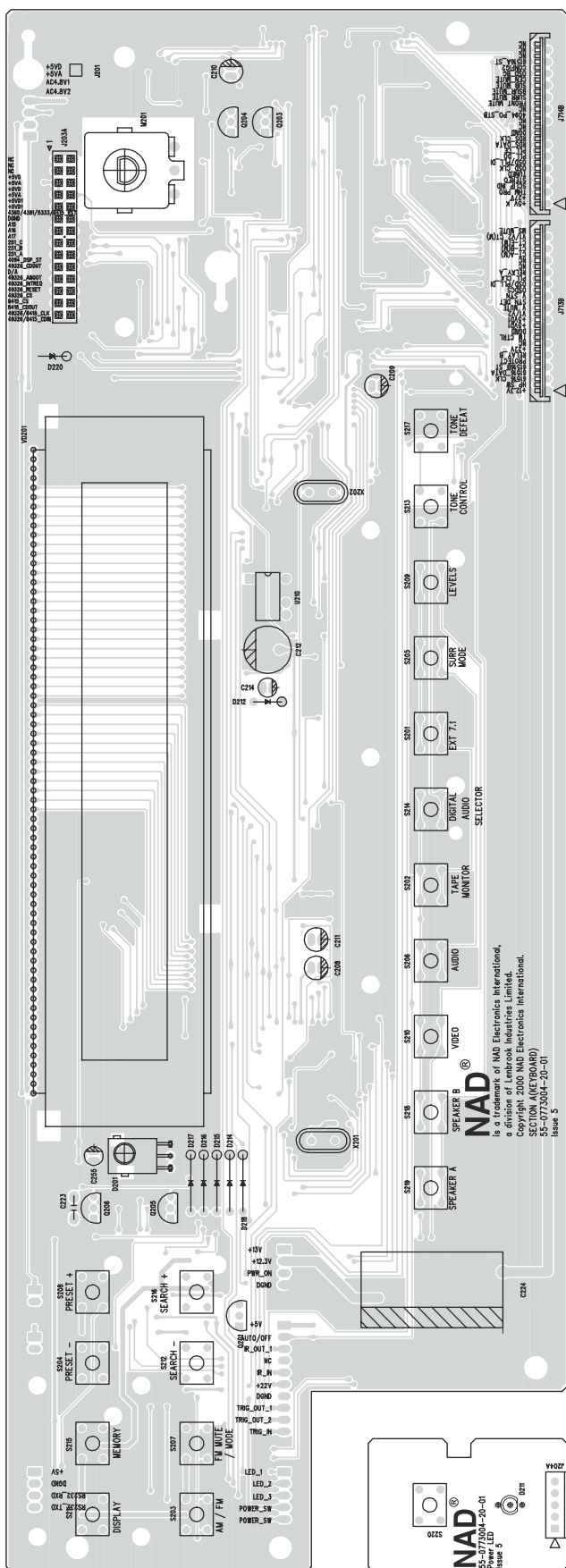


## SURROUND AMPLIFIER BOARD - COPPER SIDE

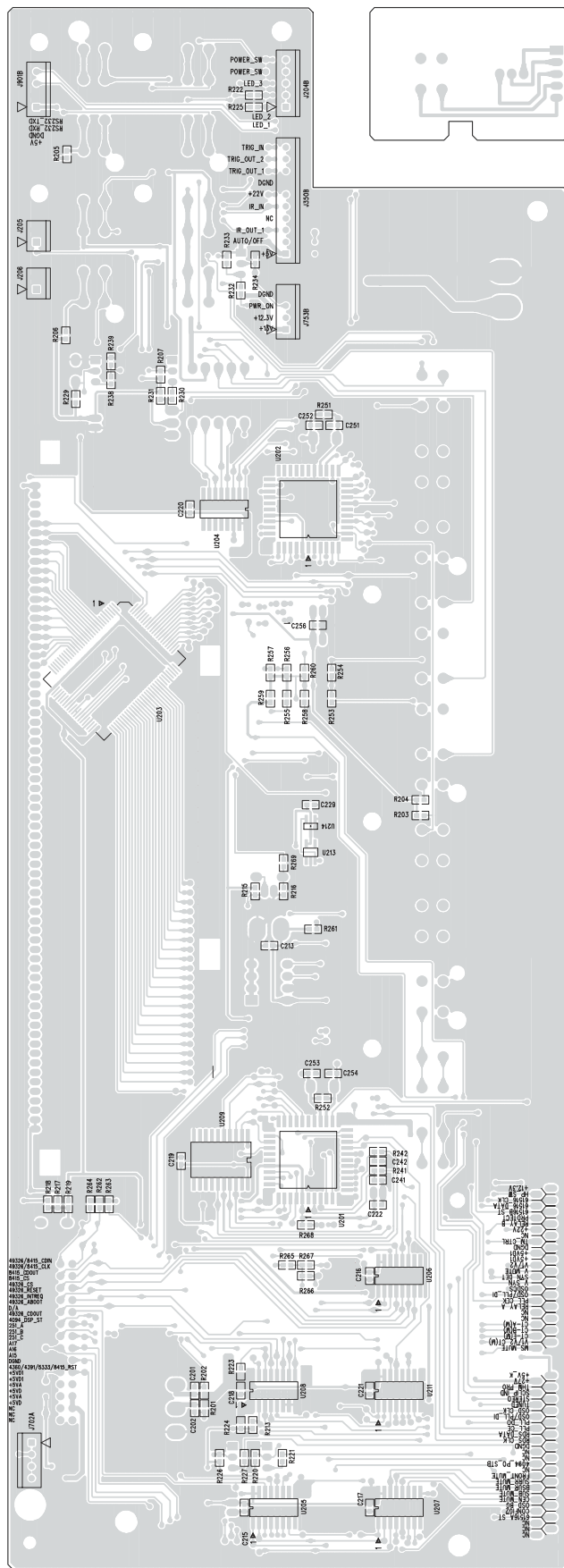




## KEY BOARD / LED BOARD - COMPONENT SIDE

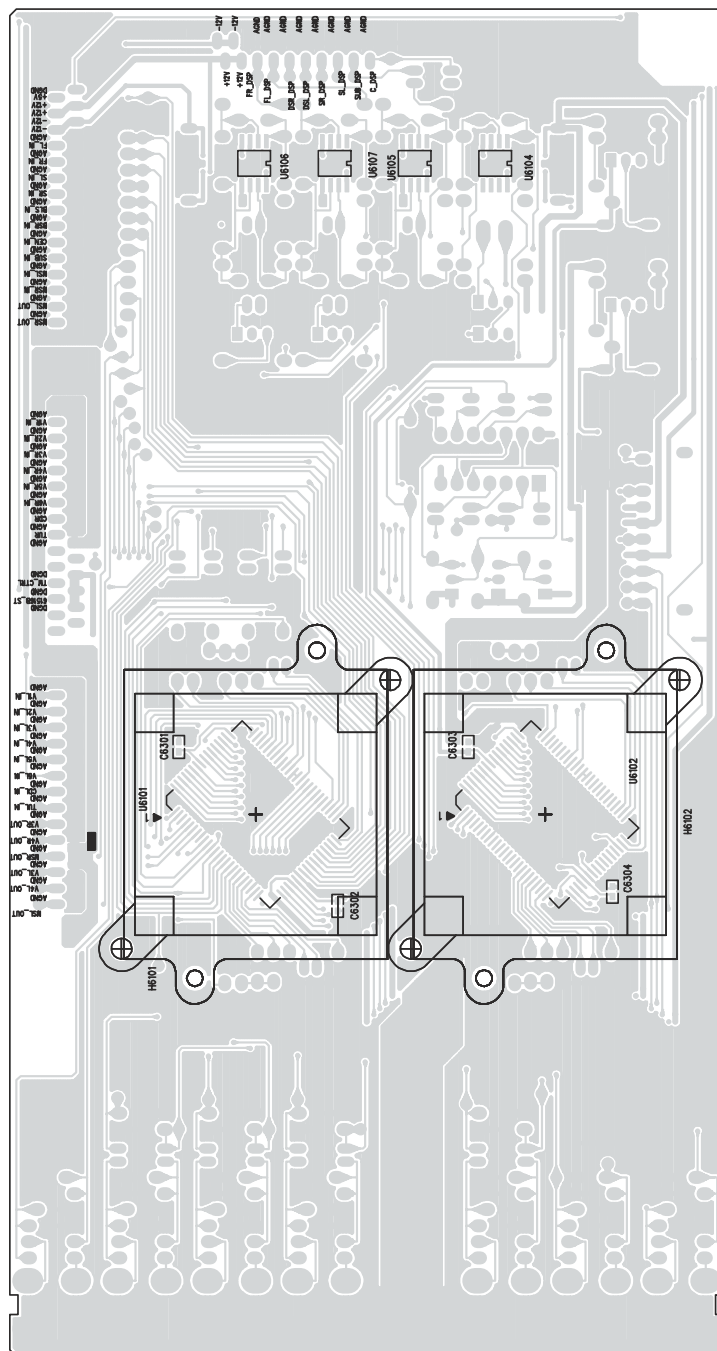


## KEY BOARD / LED BOARD - COPPER SIDE

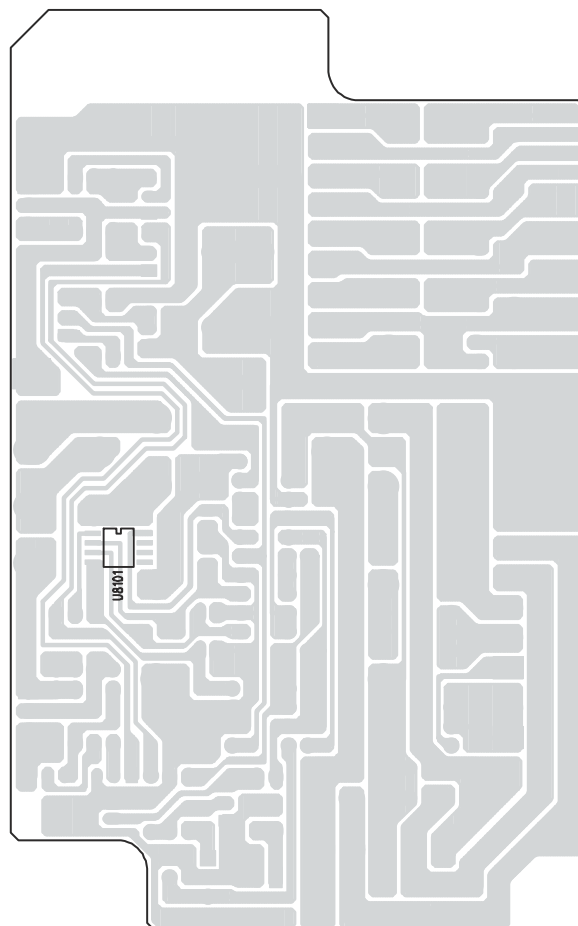
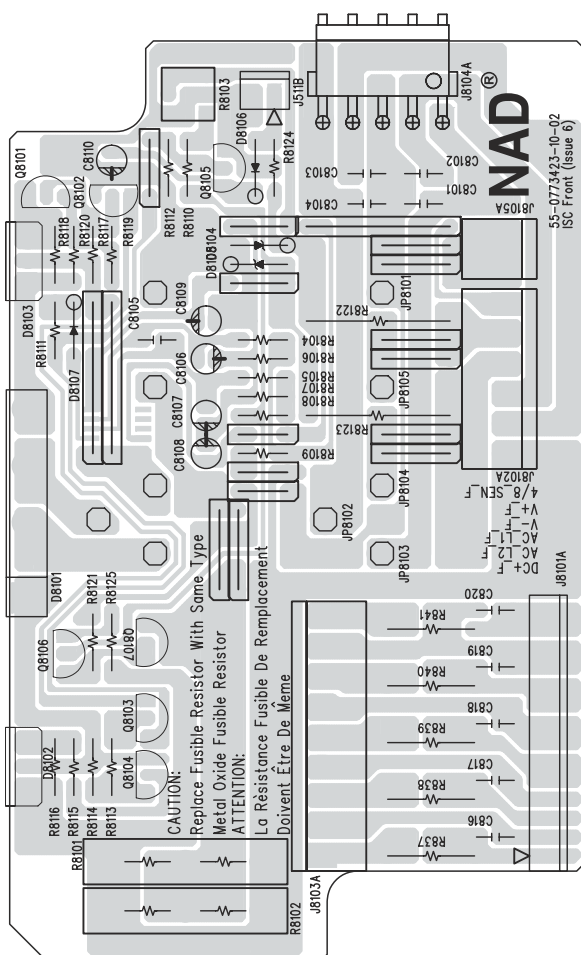




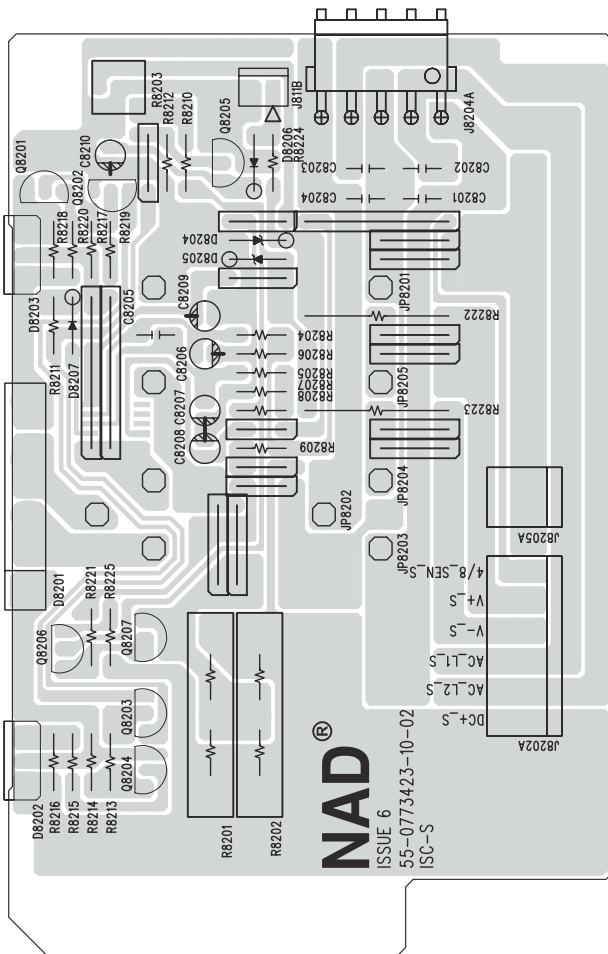
**- COPPER SIDE**



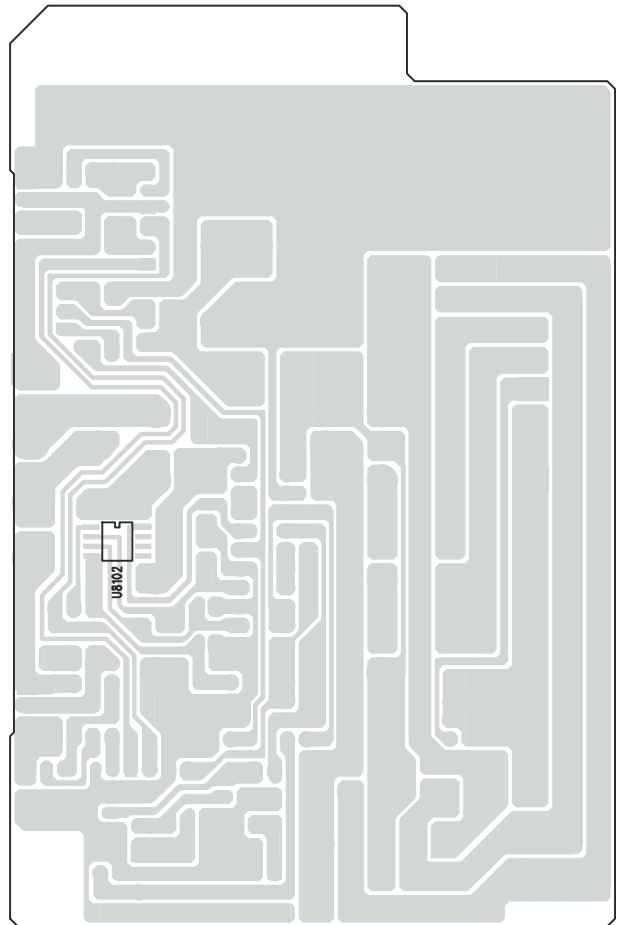
**- COPPER SIDE**



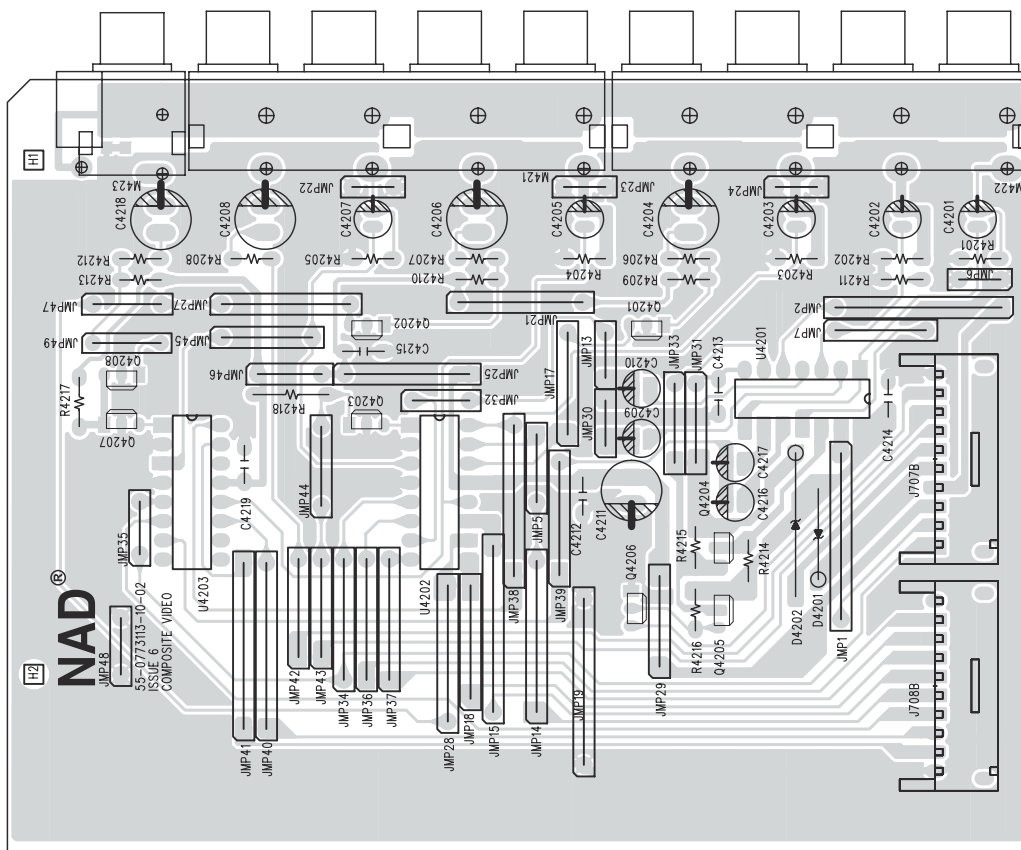
## ISC FOR SURROUND AMP BOARD - COMPONENT SIDE



## - COPPER SIDE

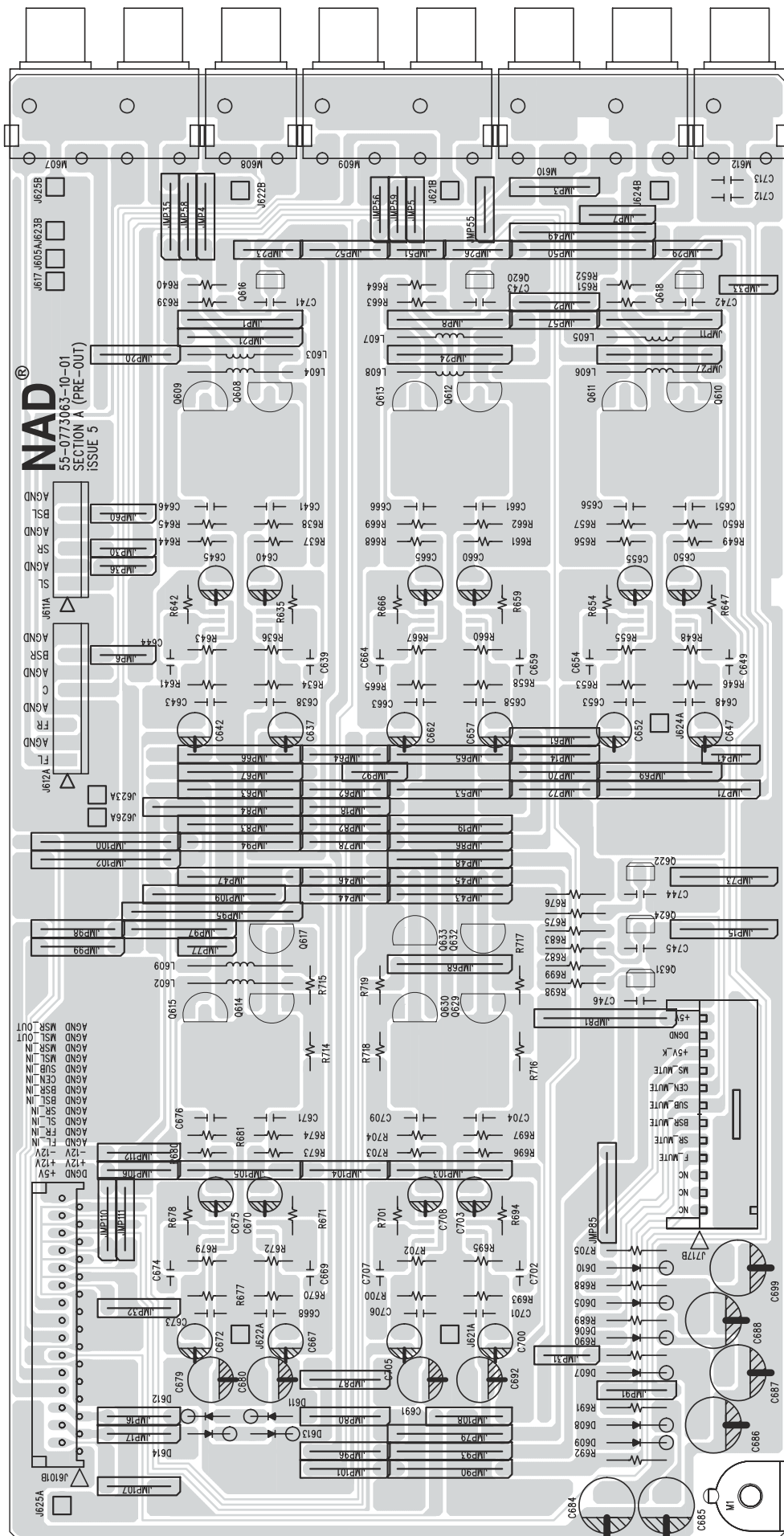


## COMPOSITE VIDEO BOARD

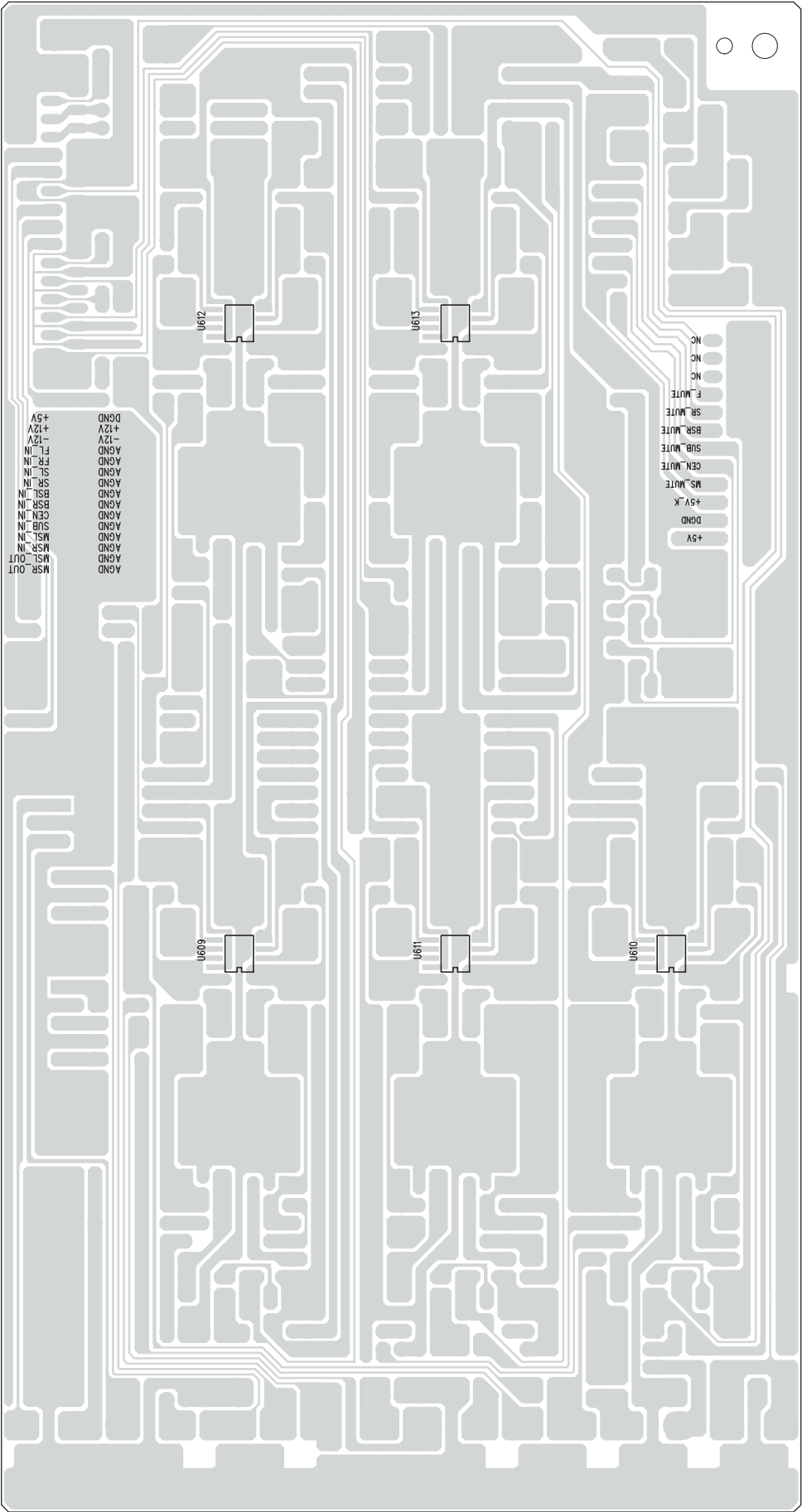




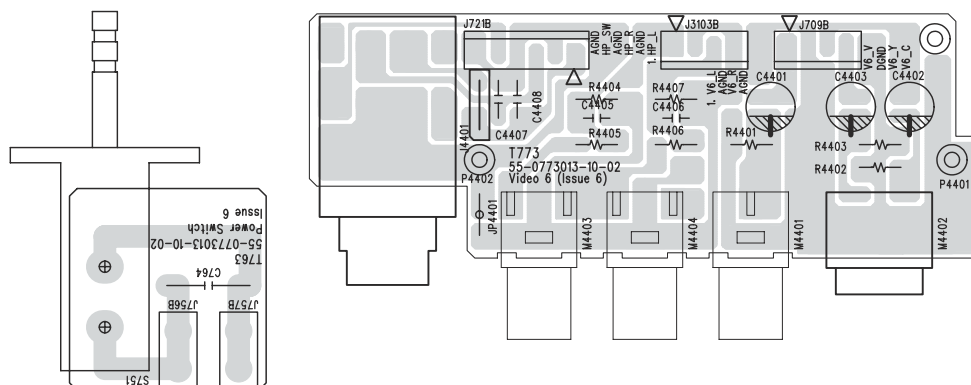
## PRE-OUT BOARD - COMPONENT SIDE



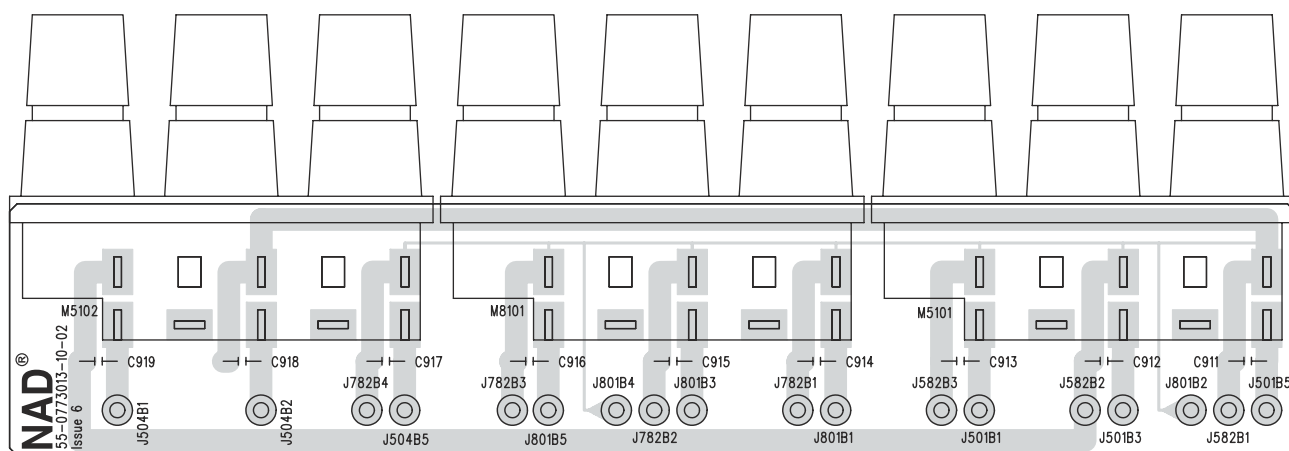
PRE-OUT BOARD - COPPER SIDE



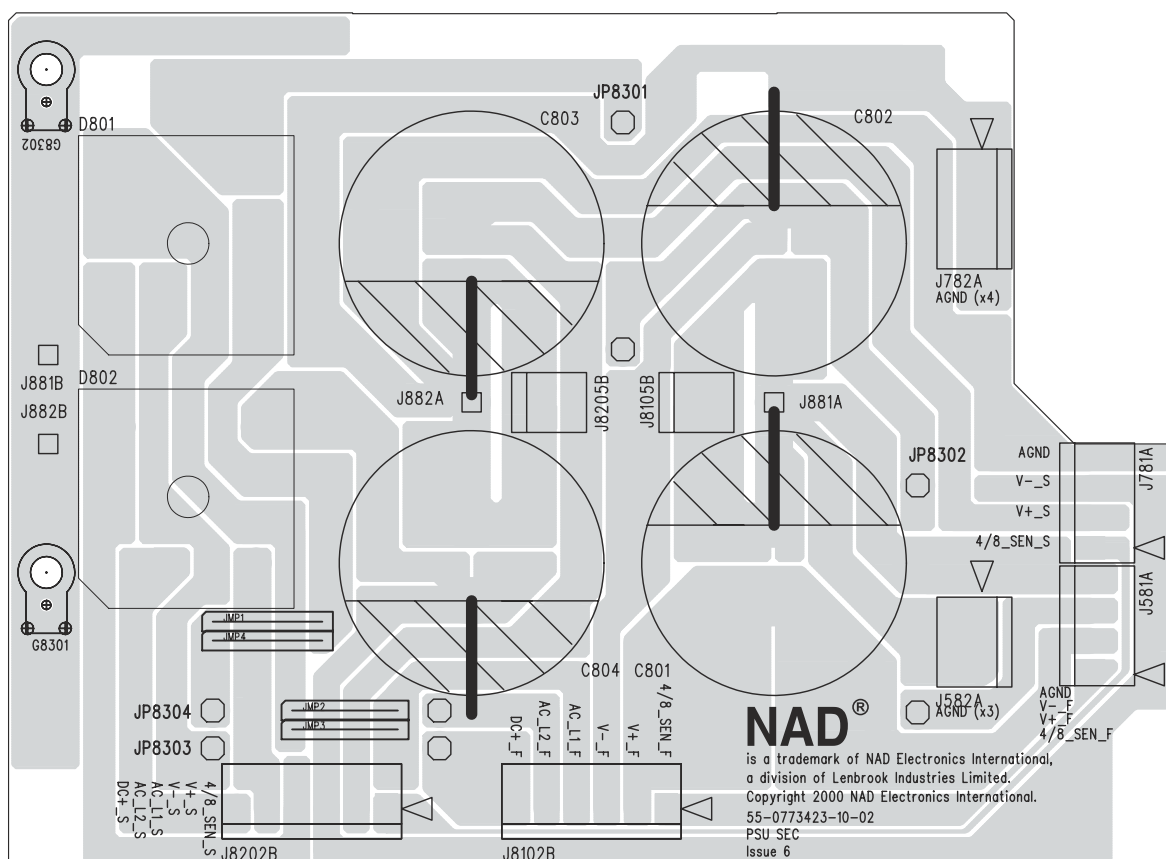
## POWER SWITCH / VIDEO 6 BOARD



## SPEAKER TERMINAL BOARD

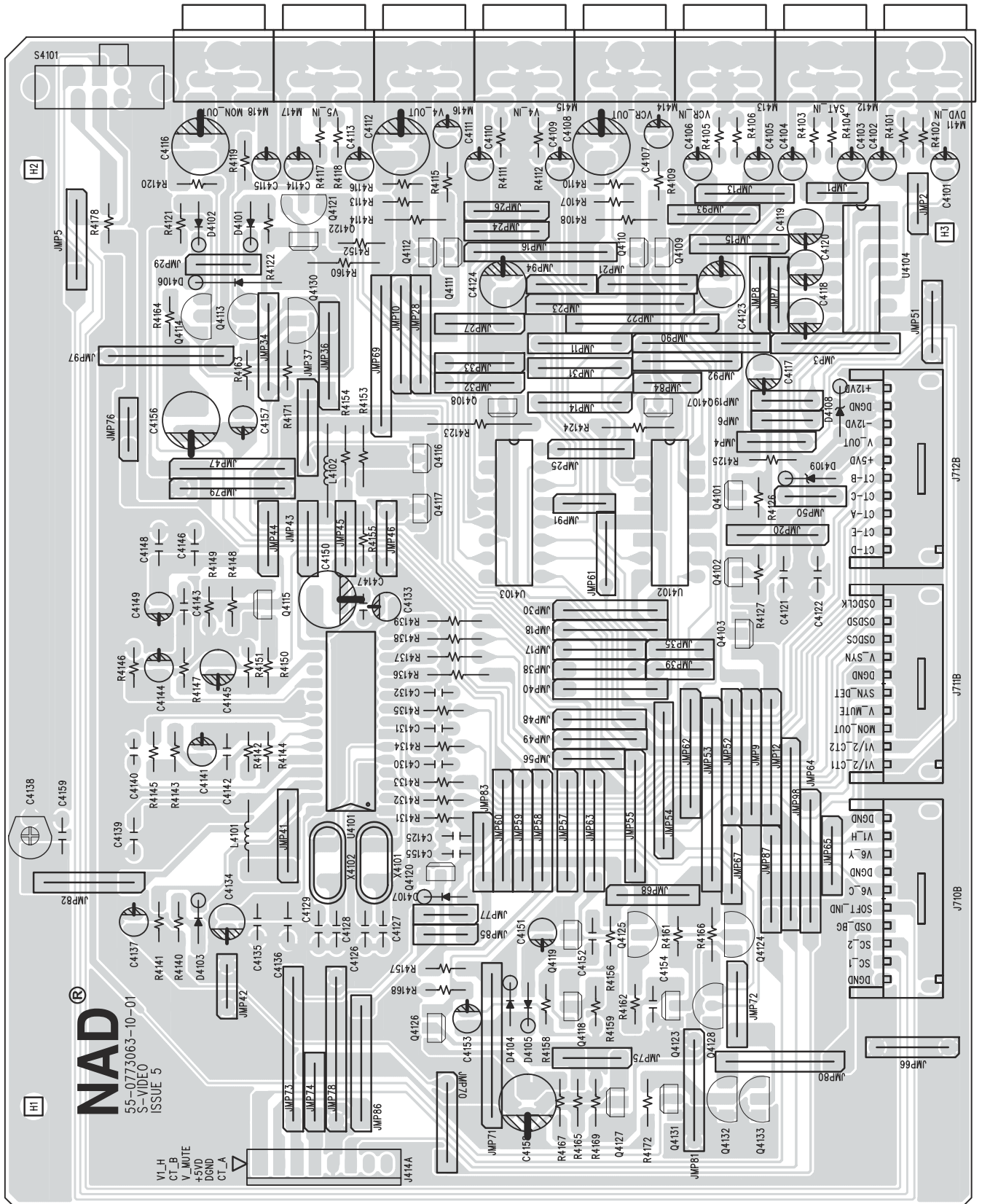


## SECONDARY BOARD



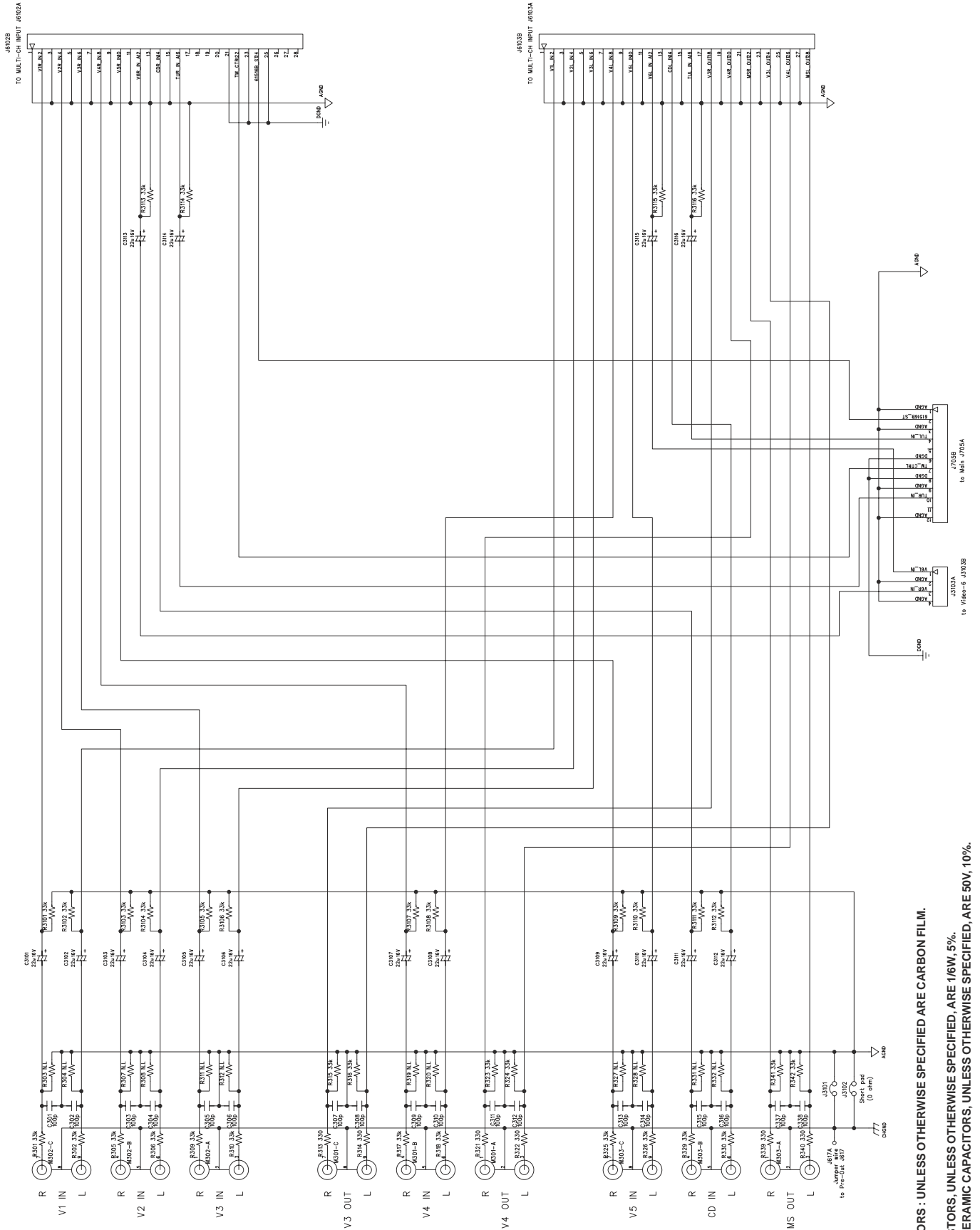


# S-VIDEO BOARD



# SCHEMATIC DIAGRAM

## AUDIO SWITCH

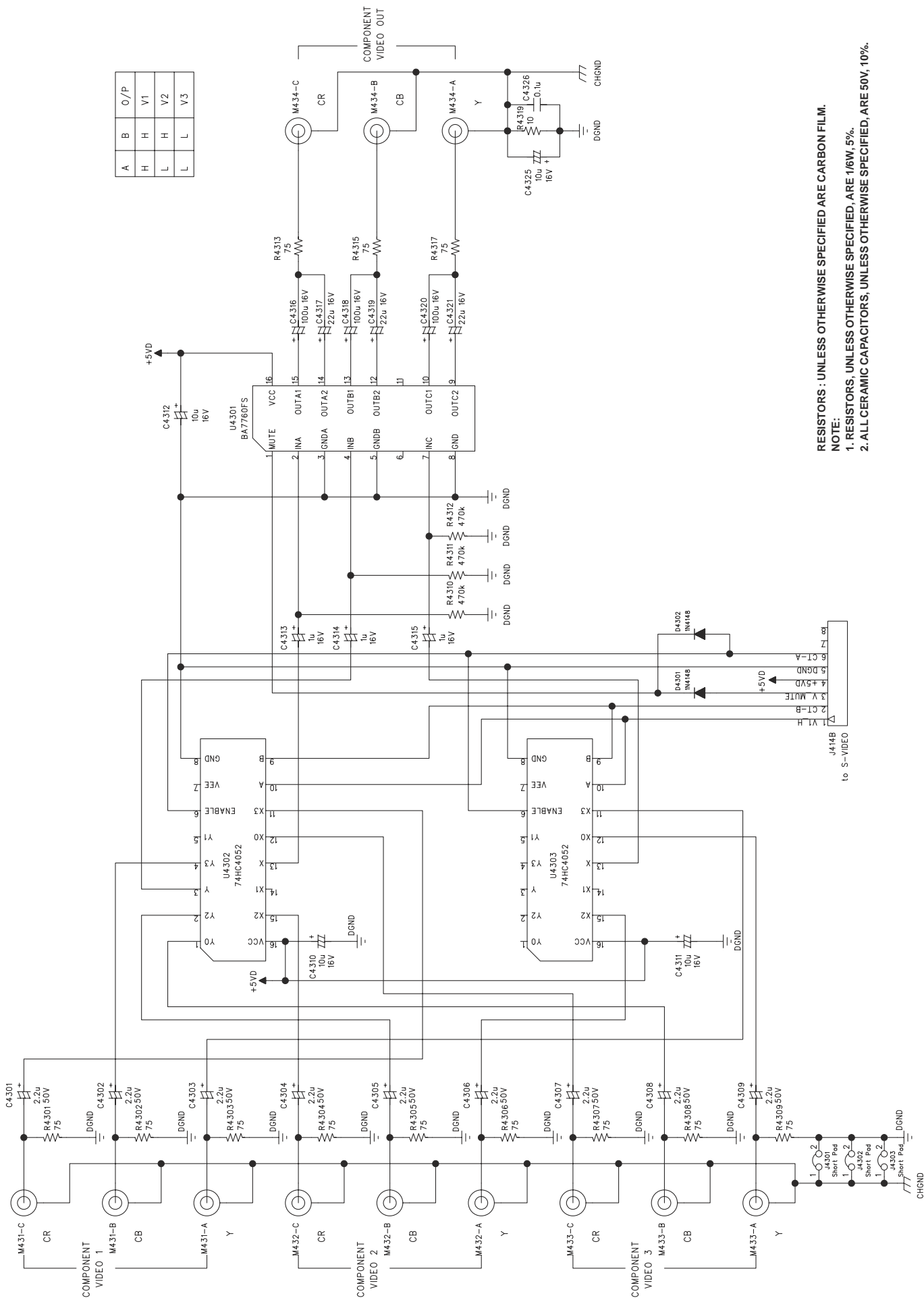


RESISTORS : UNLESS OTHERWISE SPECIFIED ARE CARBON FILM.

NOTE:

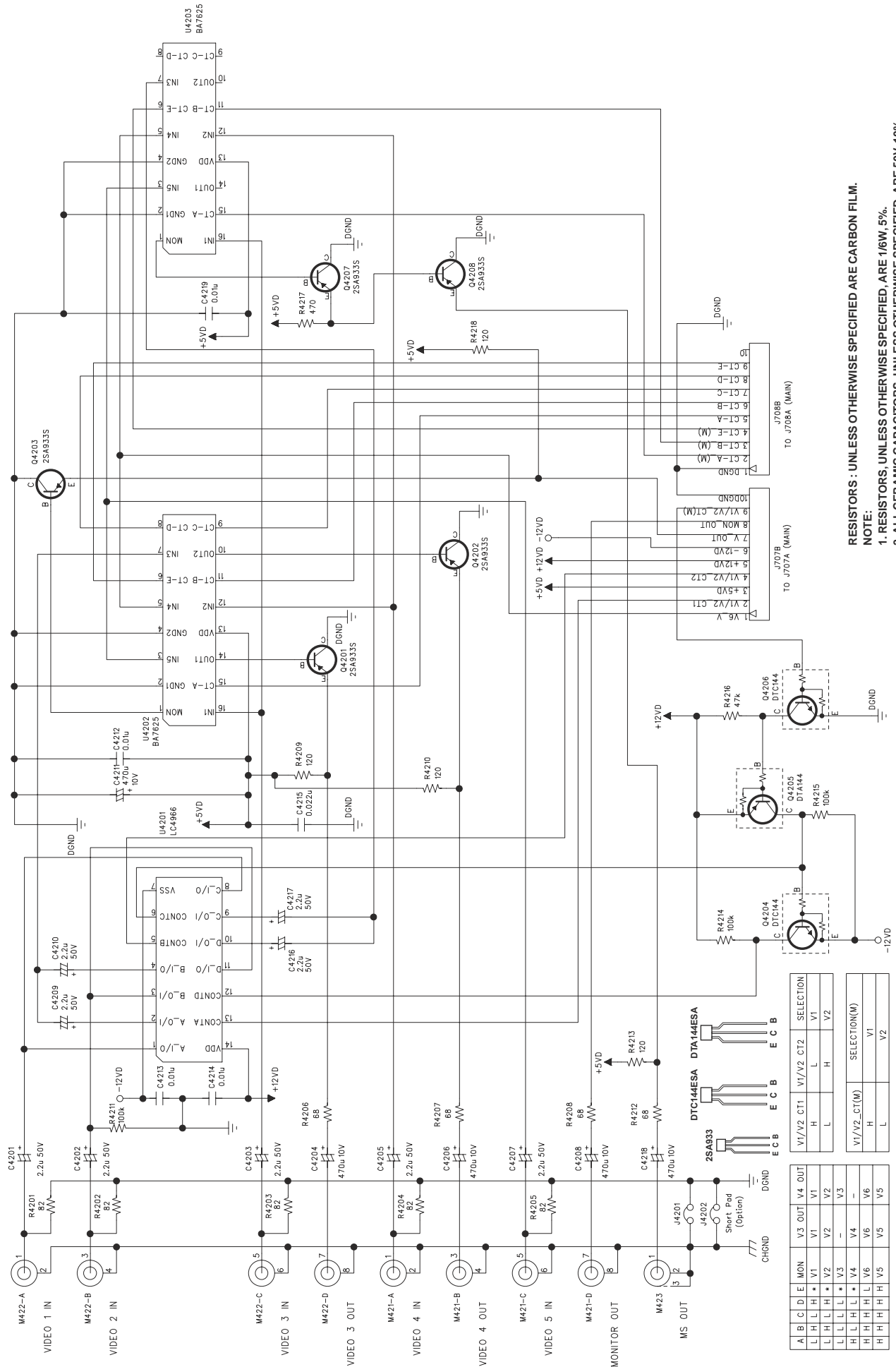
1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.
2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.

COMPONENT VIDEO



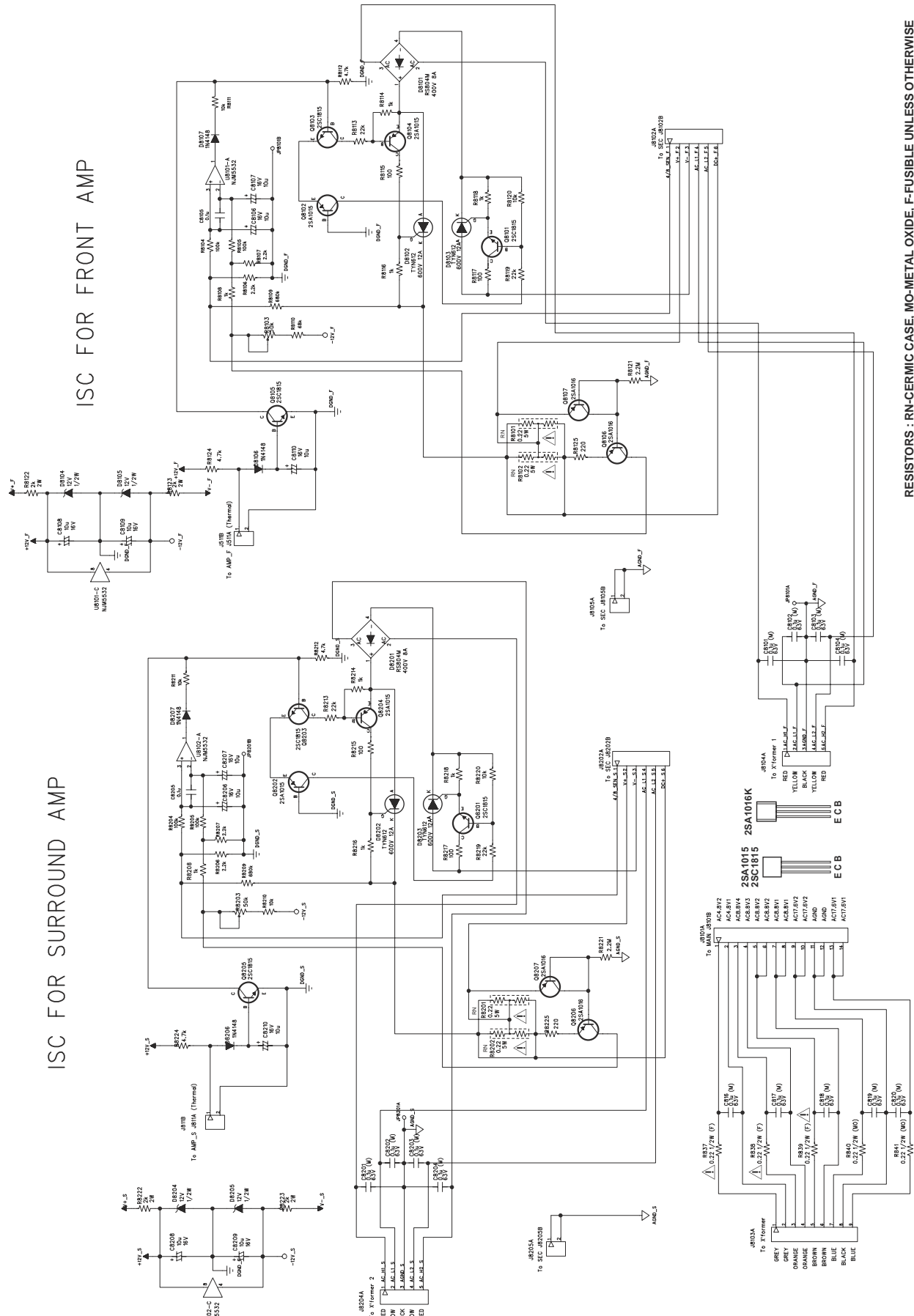
RESISTORS : UNLESS OTHERWISE SPECIFIED ARE CARBON FILM.  
NOTE:  
1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.  
2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.

COMPOSITE VIDEO

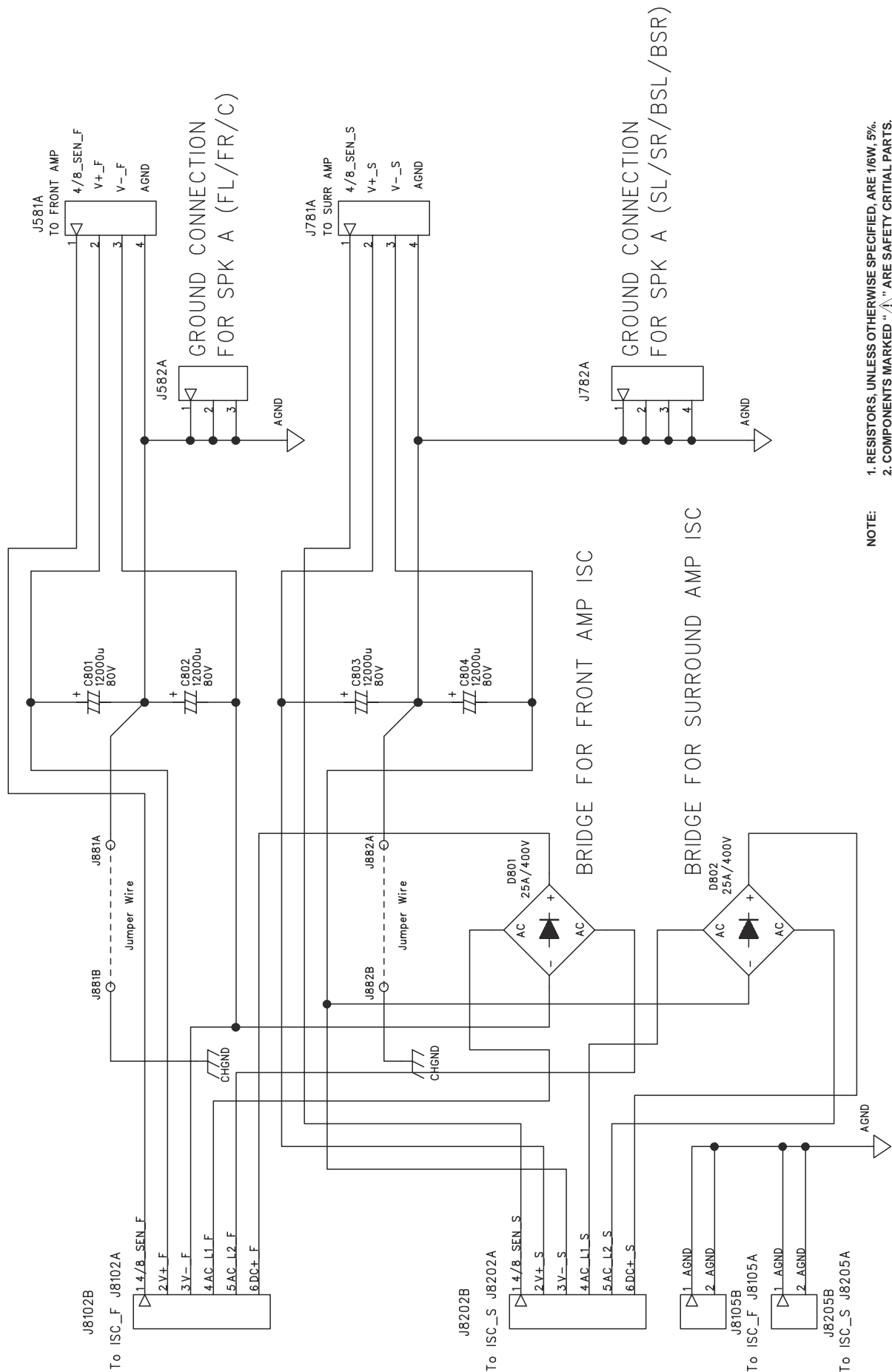


# ISC FOR SURROUND AMP

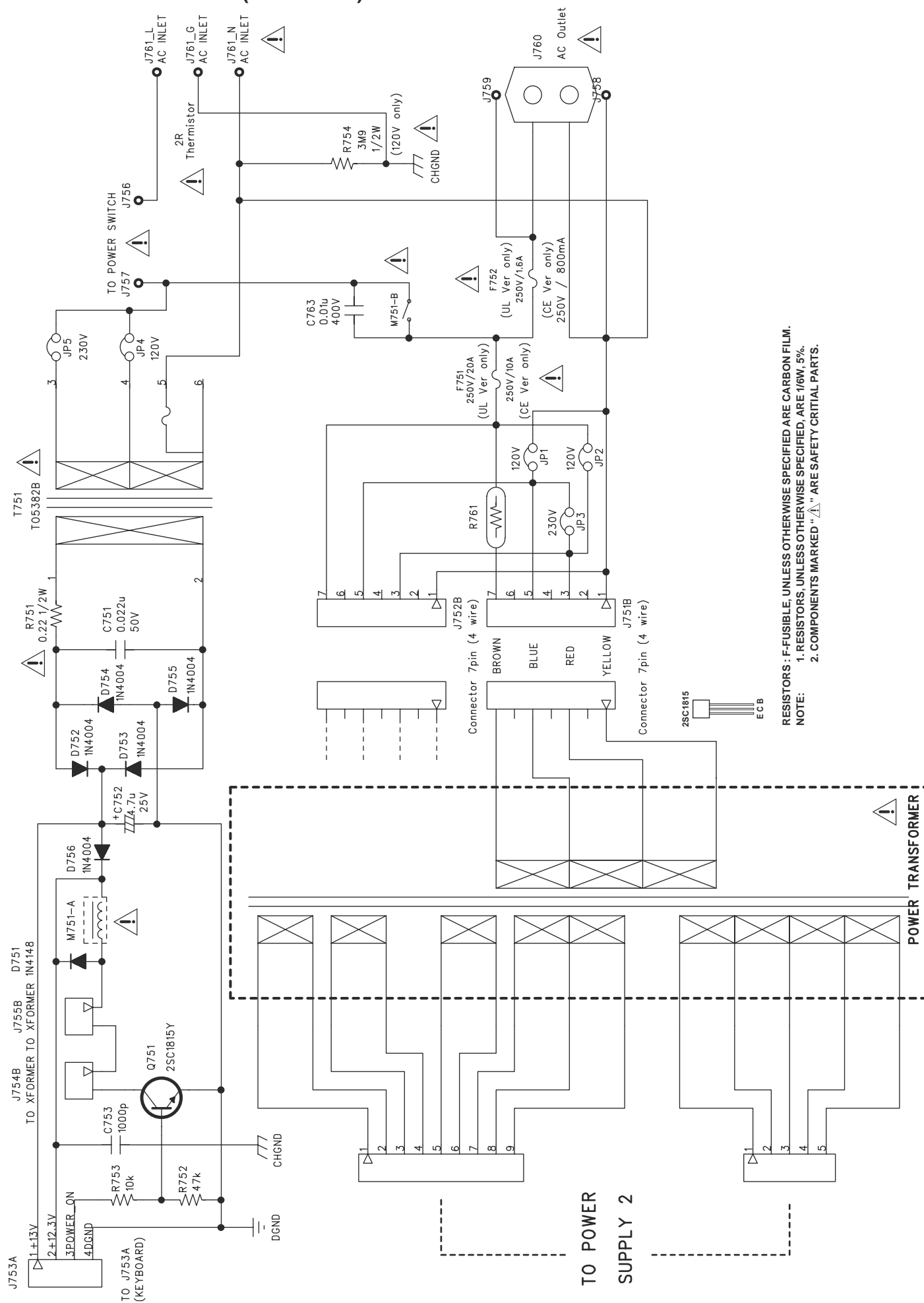
# ISC FOR FRONT AMP



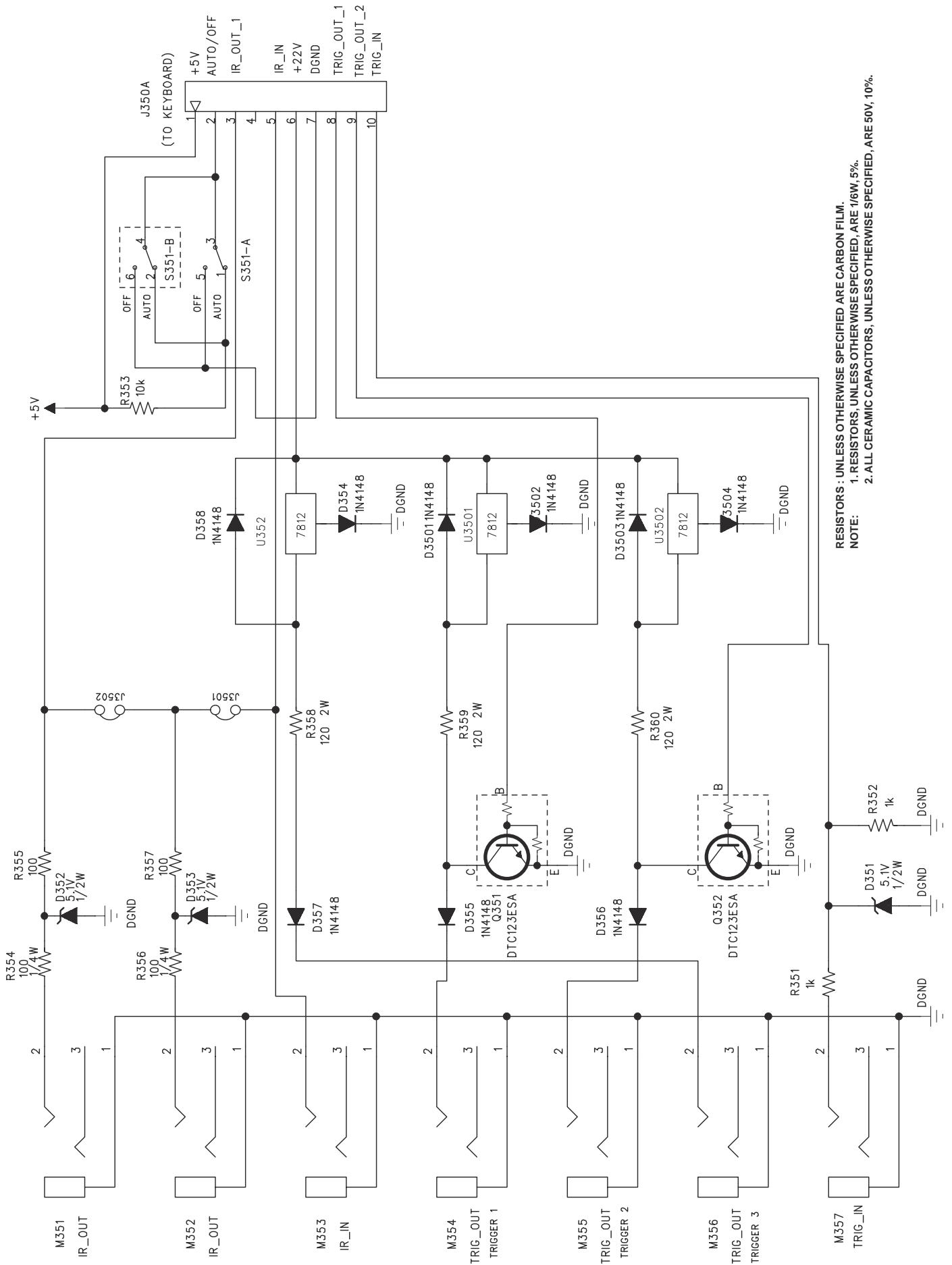
POWER SUPPLY (SECONDARY)



## POWER SUPPLY (STAND BY)



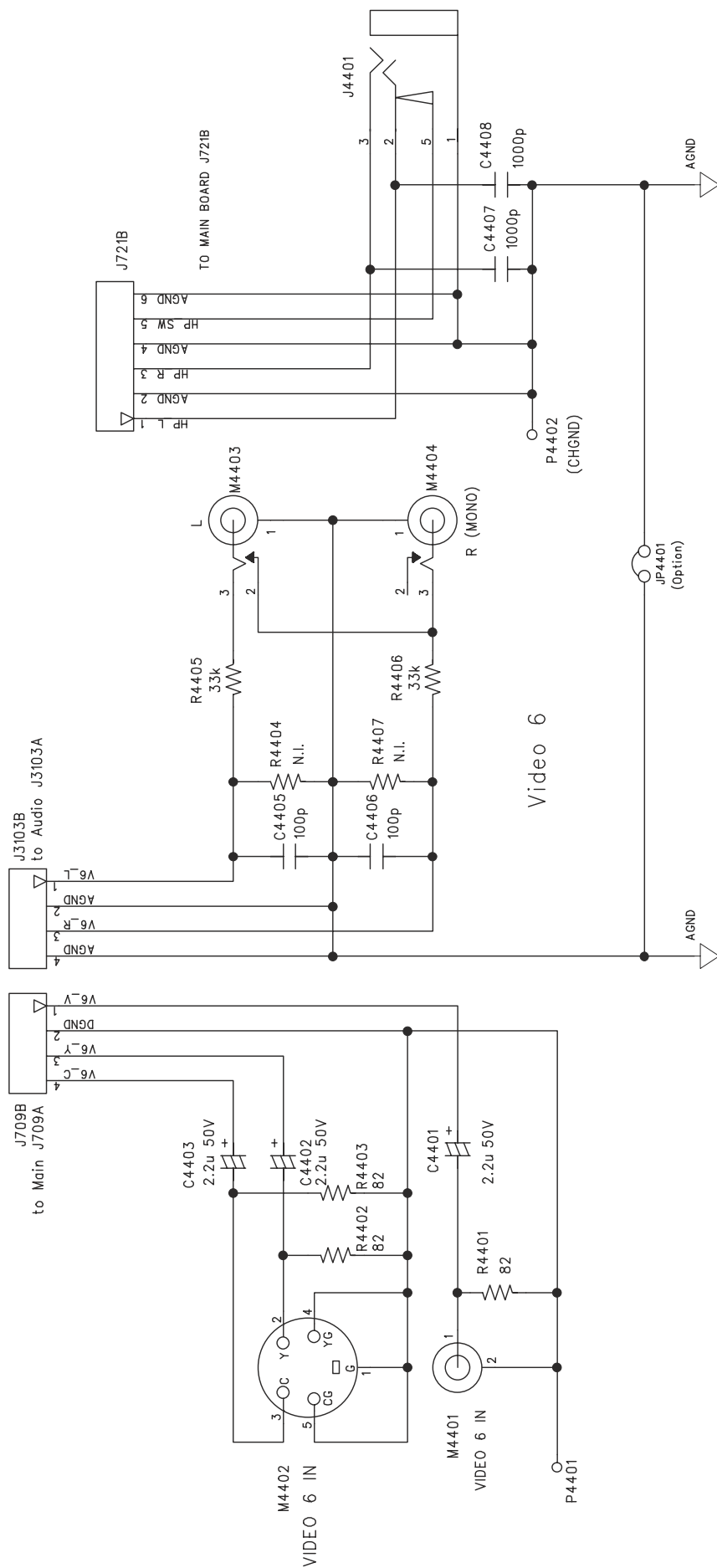
# TRIGGER



RESISTORS : UNLESS OTHERWISE SPECIFIED ARE CARBON FILM.  
NOTE: 1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.  
2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.



## VIDEO 6



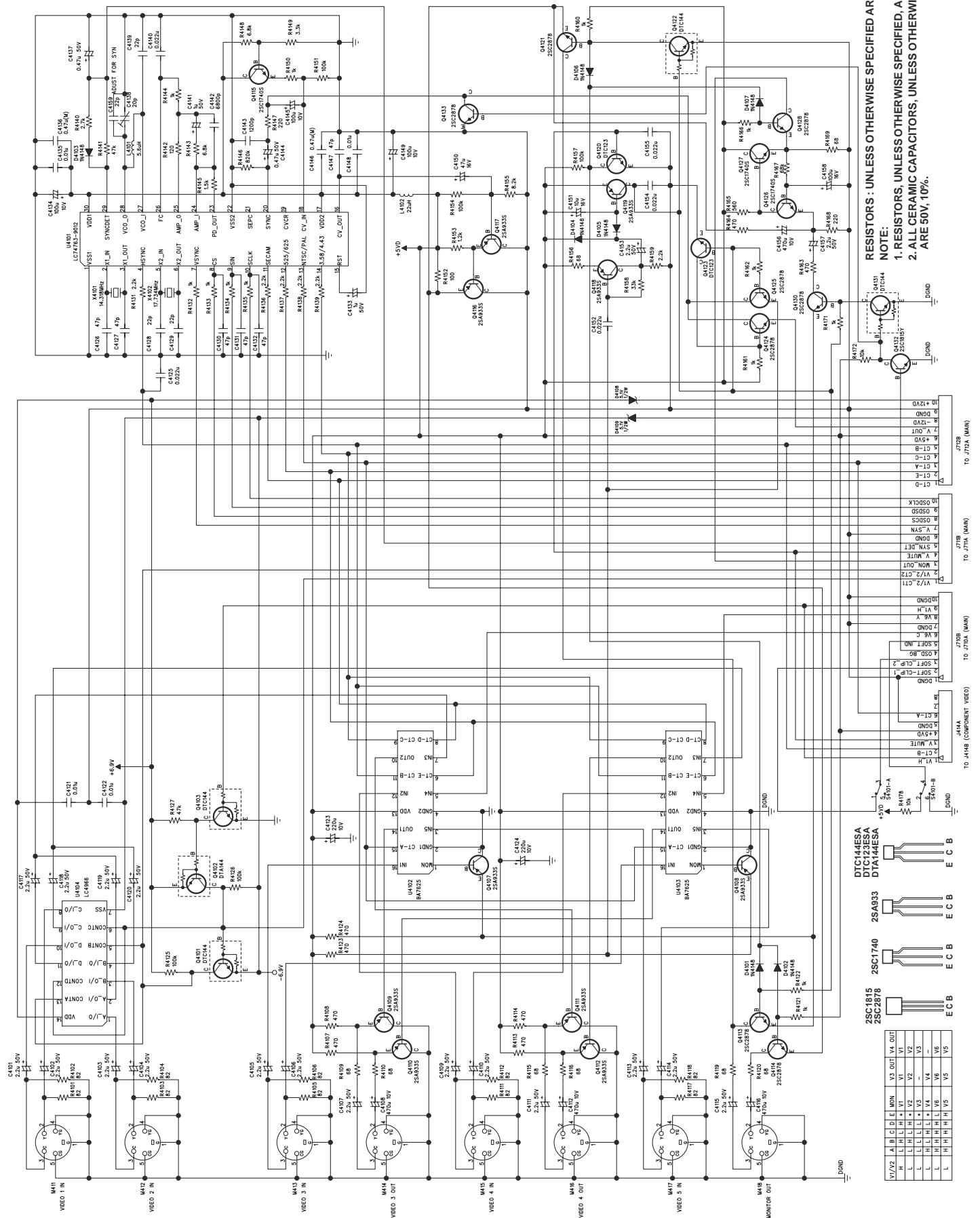
RESISTORS: UNLESS OTHERWISE SPECIFIED ARE CARBON FILM.

**NOTE:**

NOTE:  
1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.

2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.

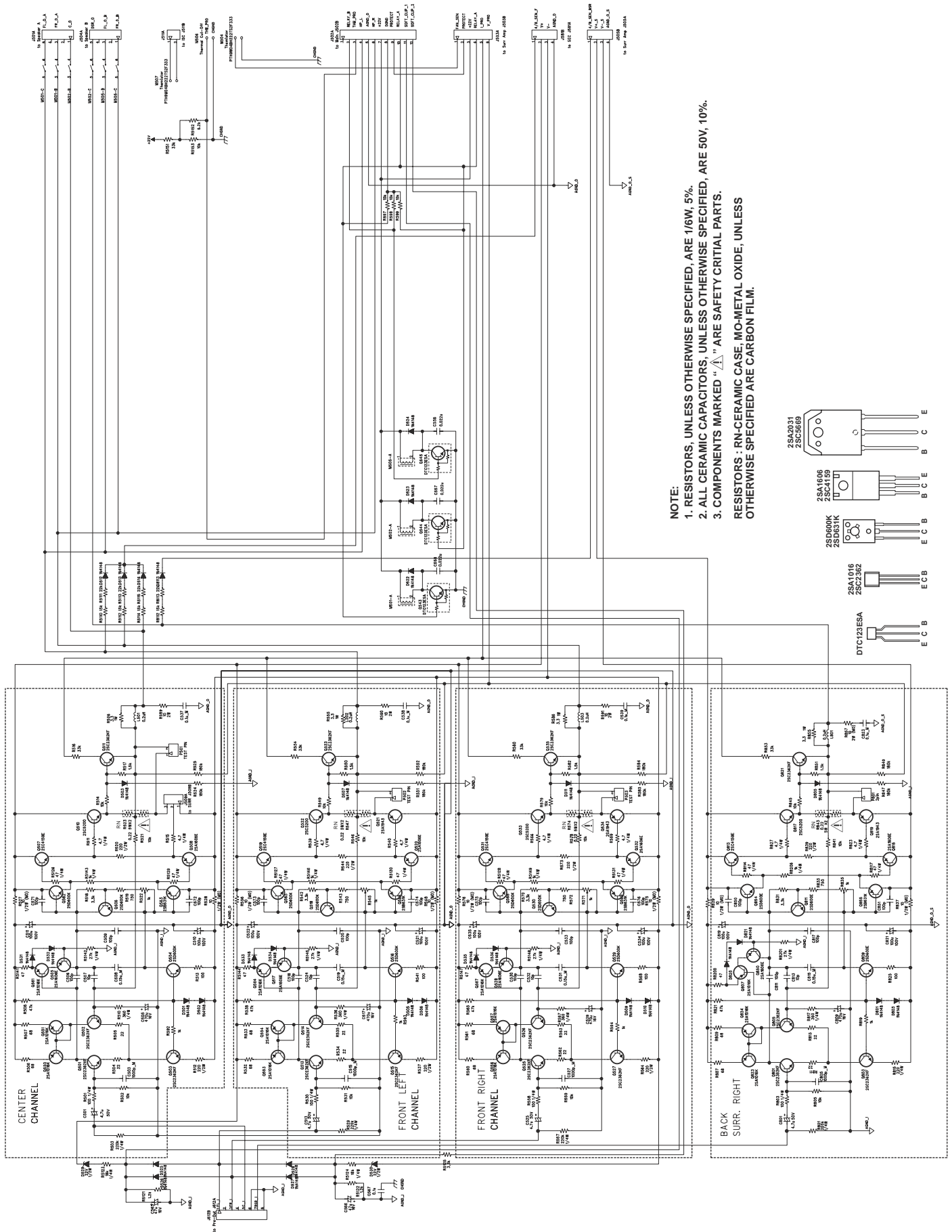
# S-VIDEO



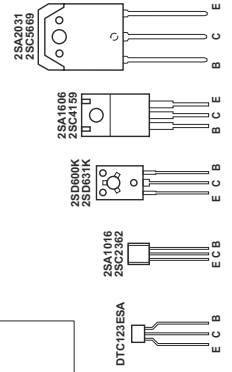
RESISTORS : UNLESS OTHERWISE SPECIFIED ARE CARBON FILM.  
 NOTE:  
 1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.  
 2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.

WV22	A	B	C	D	E	MON	V3	OUT	V4	OUT	V5
L	L	L	L	L	L	L	V1	V1	V1	V1	V1
L	L	L	L	L	L	L	V2	V2	V2	V2	V2
L	L	L	L	L	L	L	V3	V3	V3	V3	V3
L	L	L	L	L	L	L	V4	V4	V4	V4	V4
L	L	L	L	L	L	L	V5	V5	V5	V5	V5
L	L	L	L	L	L	L	V6	V6	V6	V6	V6
L	L	L	L	L	L	L	V7	V7	V7	V7	V7

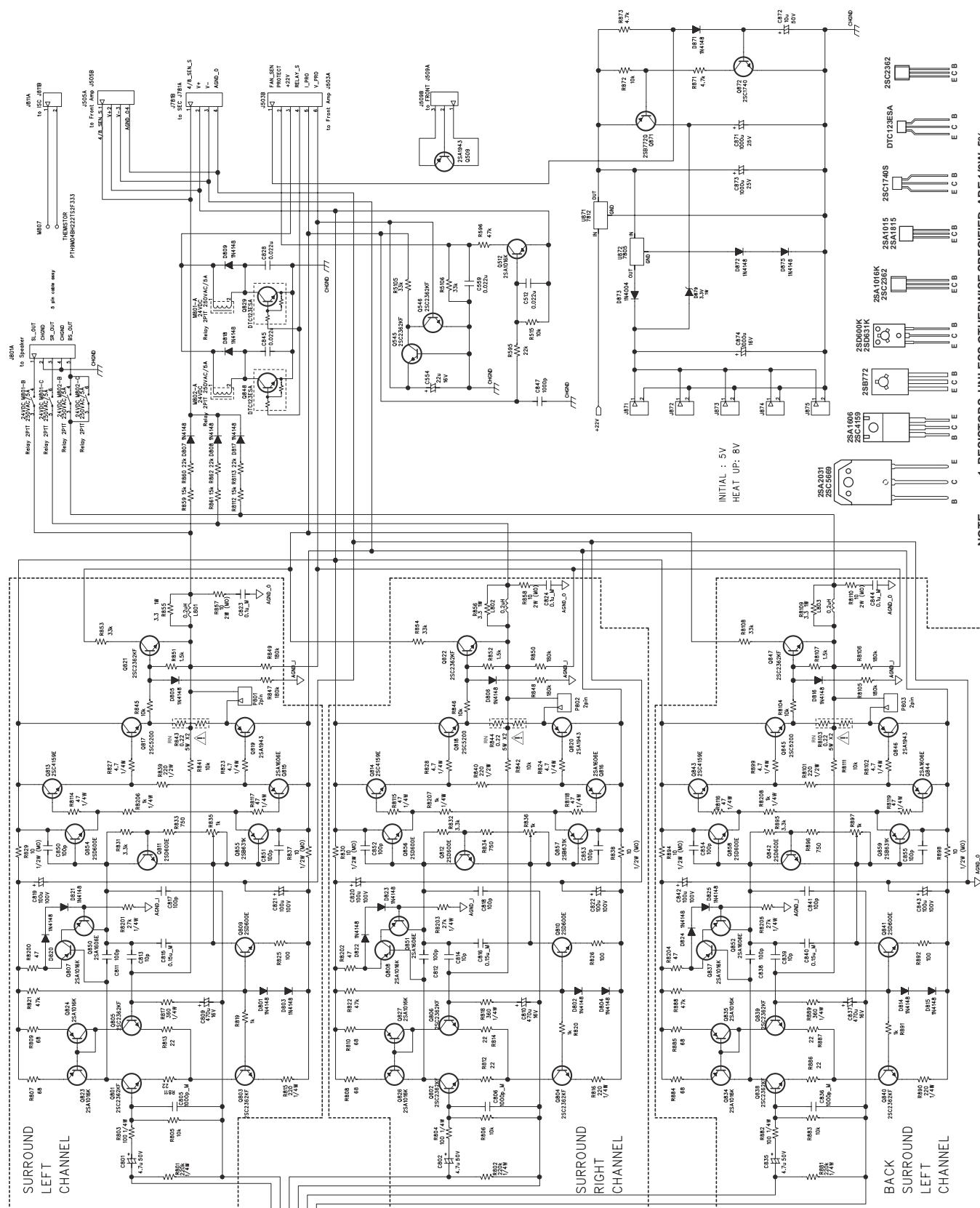
# FRONT / CENTER / BACK SURROUND RIGHT AMPLIFIER



- NOTE:**
1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.
  2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.
  3. COMPONENTS MARKED "△" ARE SAFETY CRITICAL PARTS.
- RESISTORS : RN-CERAMIC CASE, MO-METAL OXIDE, UNLESS OTHERWISE SPECIFIED ARE CARBON FILM.



## SURROUND / BACK SURROUND LEFT AMPLIFIER

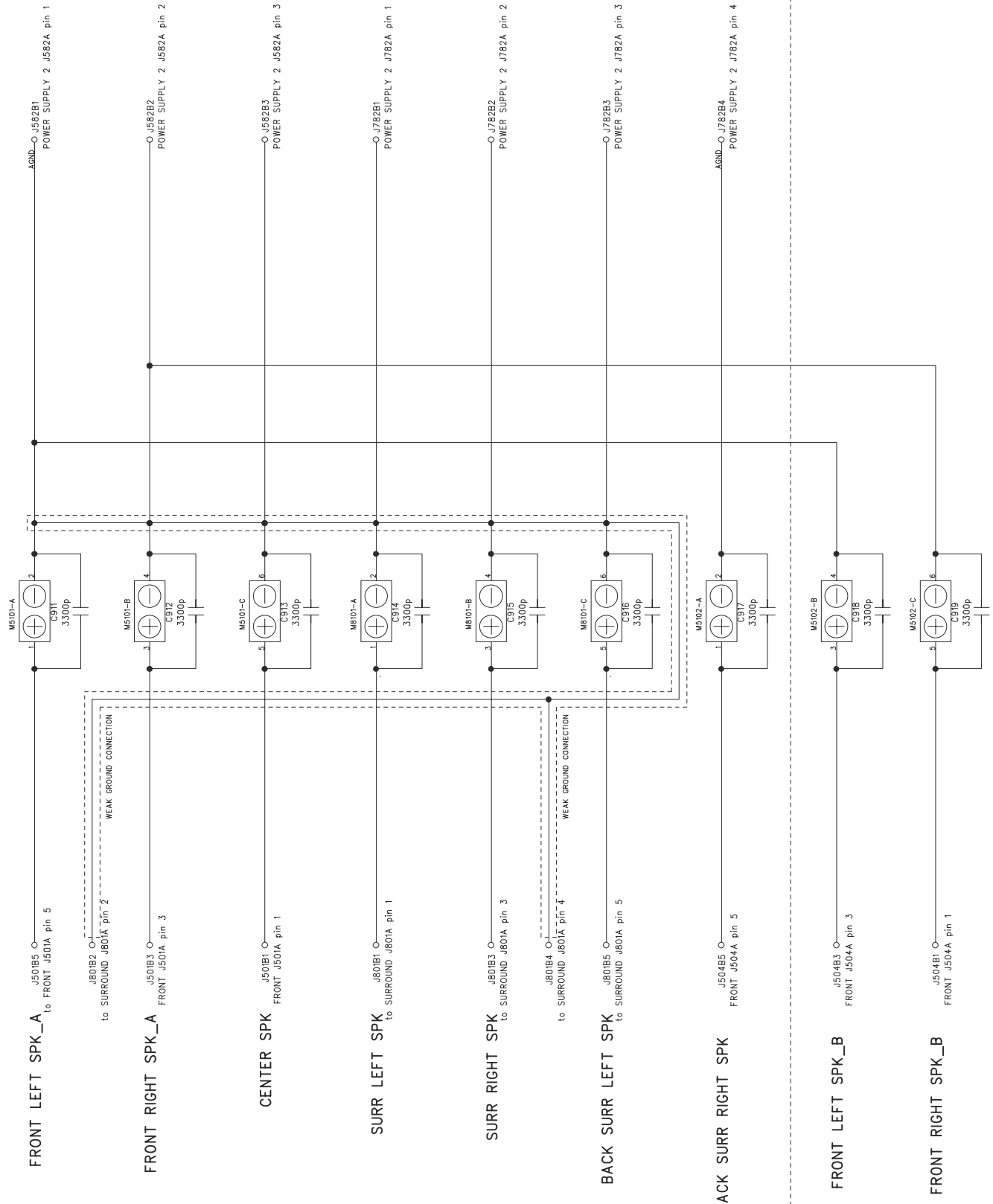


NOTE:

1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.
2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.
3. COMPONENTS MARKED "△" ARE SAFETY CRITICAL PARTS.

RESISTORS : RN-CERAMIC CASE, MO-METAL OXIDE, UNLESS OTHERWISE SPECIFIED ARE CARBON FILM.

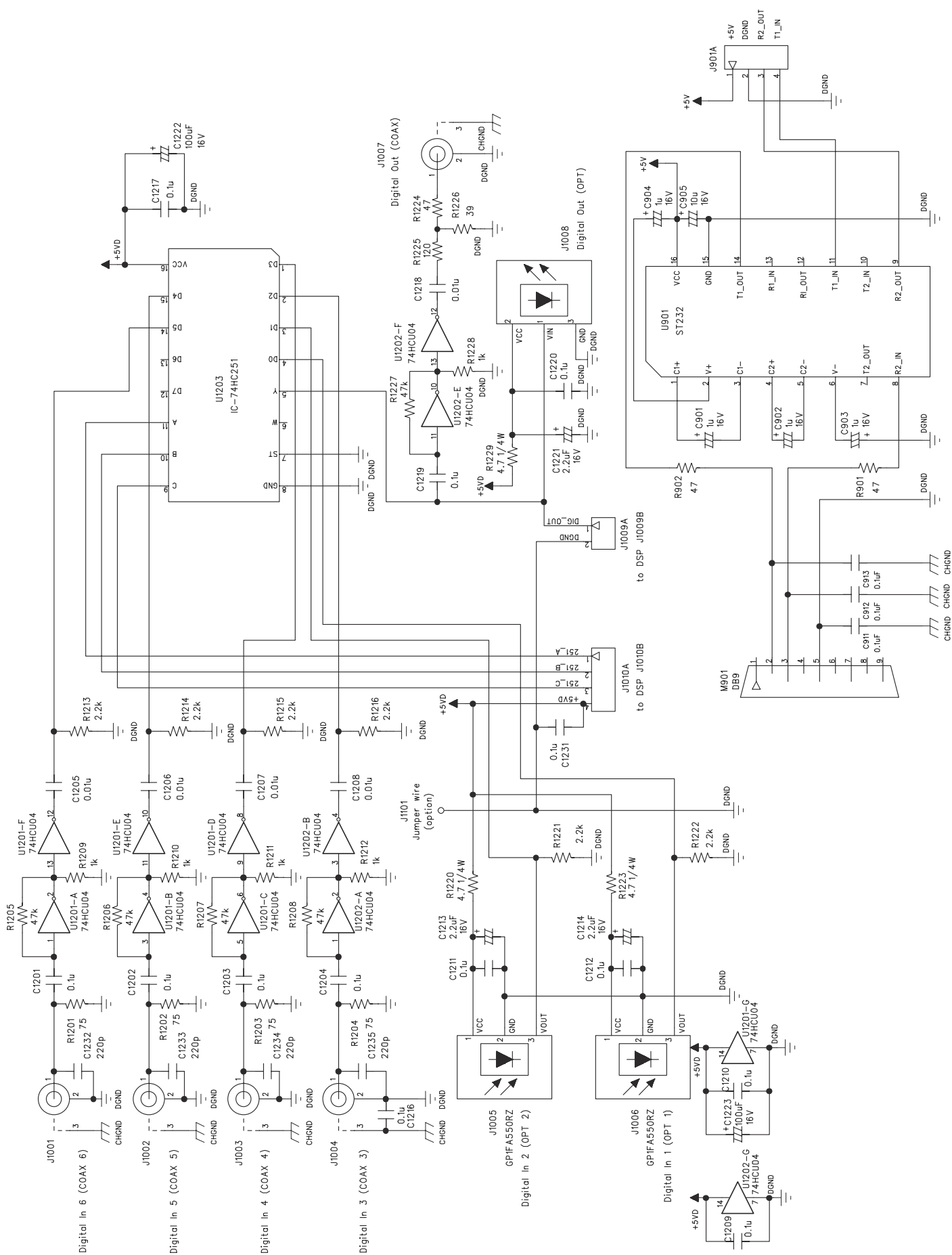
SPEAKER A & B



SPEAKER A

SPEAKER B

## DIGITAL IN & OUT



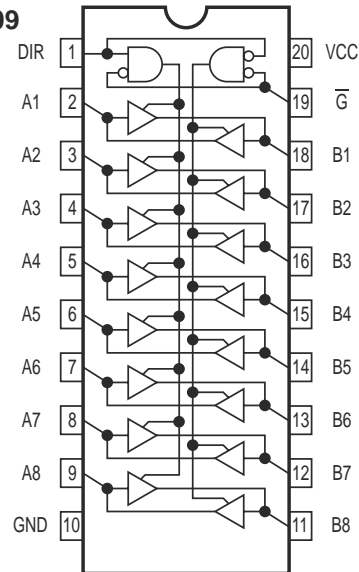
# IC BLOCK DIAGRAM

## 74LVC245

DSP BOARD: U1002, U1003, U1014

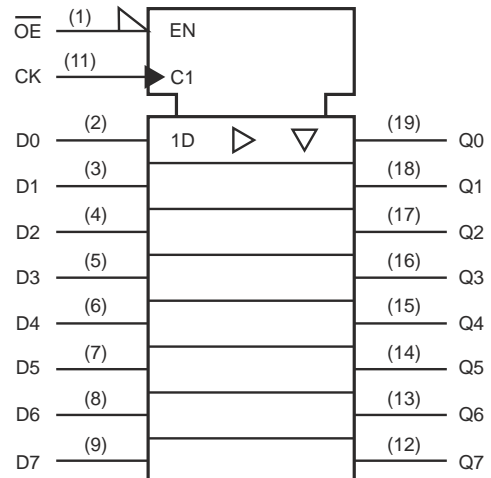
## 74VHC245

KEYBOARD: U209



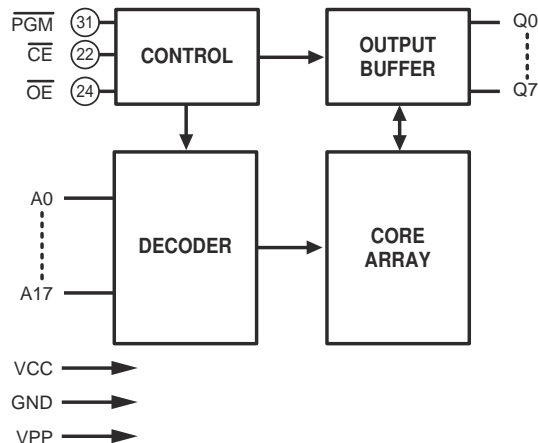
## 74LVQ574

DSP BOARD: U1008, U1009



## W27C020

DSP BOARD: U1007



## NJM5532

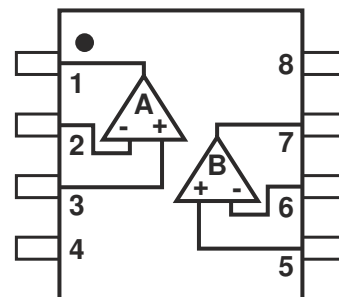
DSP BOARD: U1010~U1013, U1023 & U1028

MULTI-CHANNEL: U6104~U6107

PRE-OUT BOARD: U609~U613

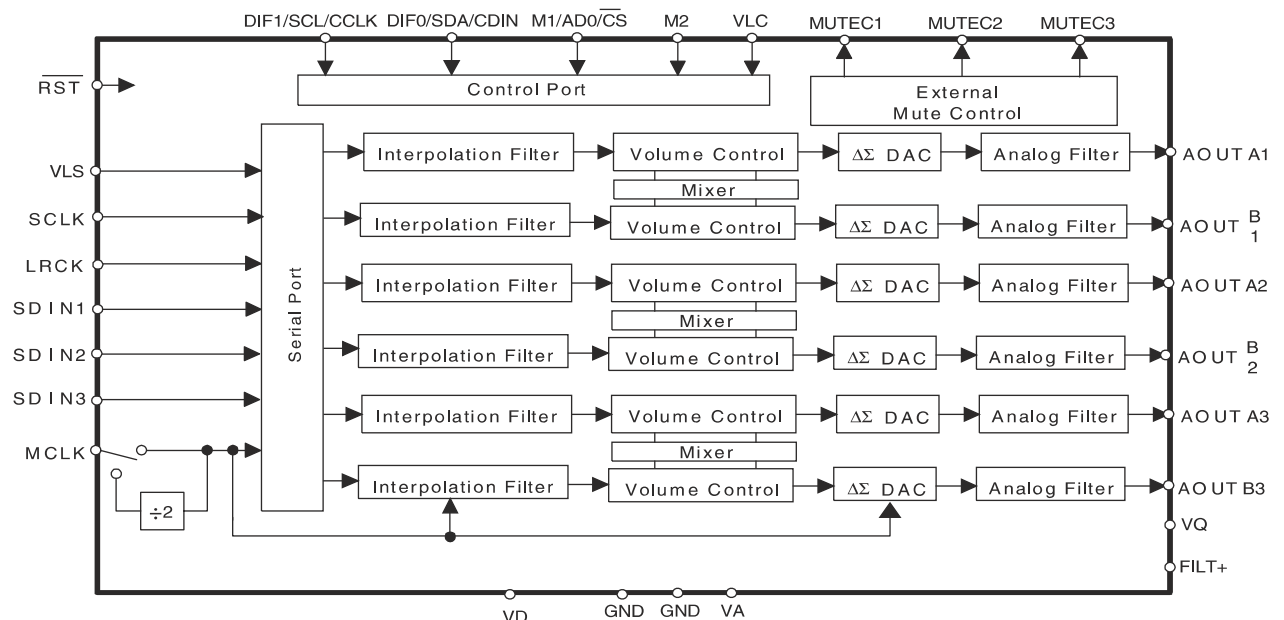
ISC FRONT BOARD: U8101

ISC SURROUND BOARD: U8102

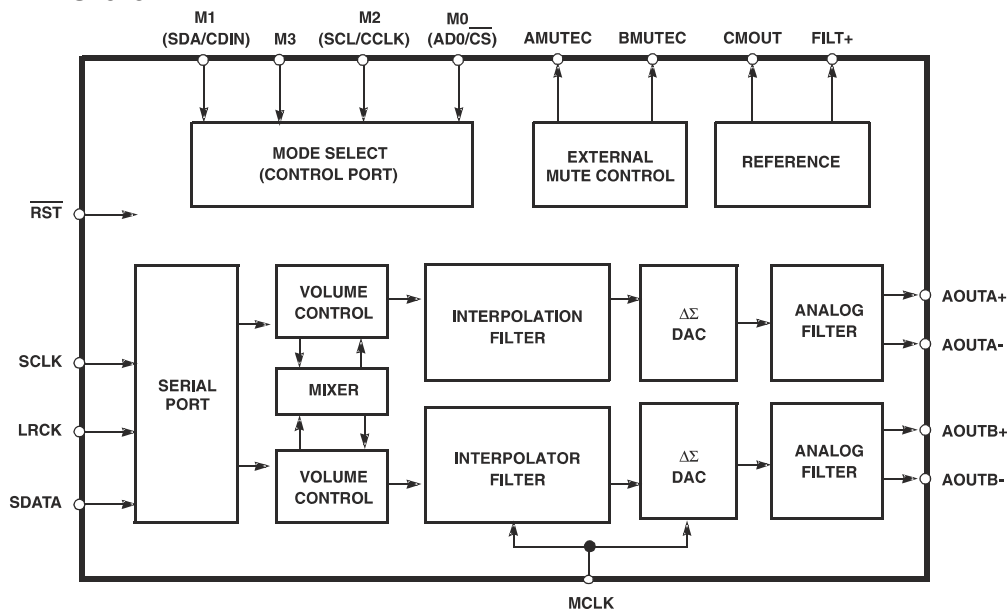


## CS4360KZ

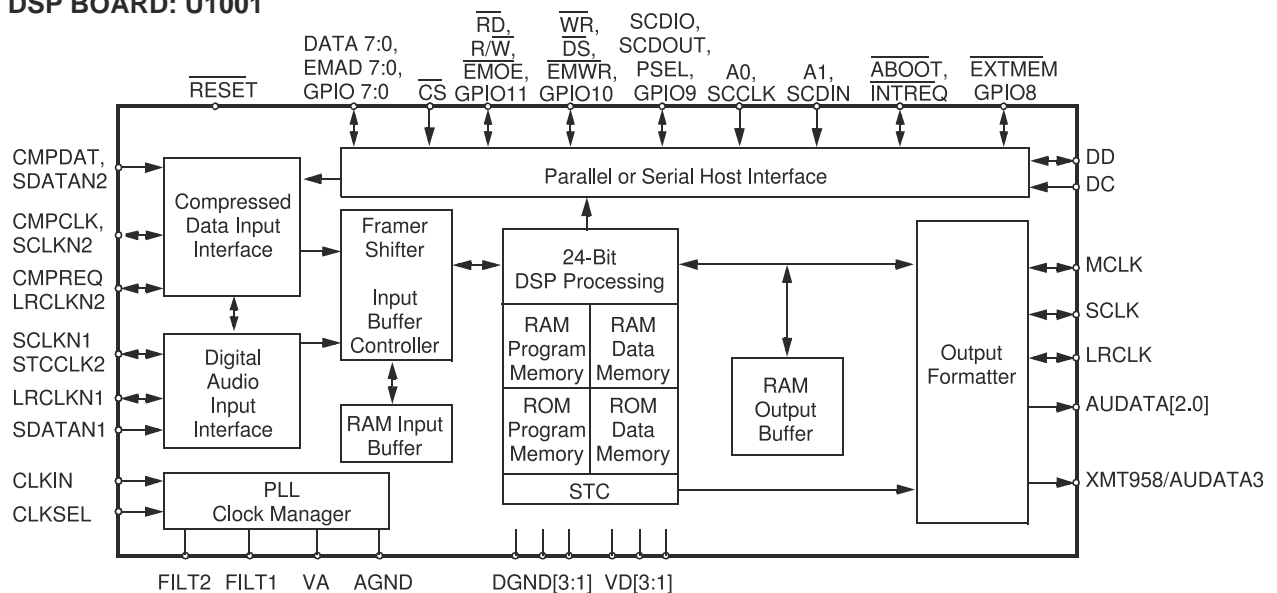
DSP BOARD: U1026



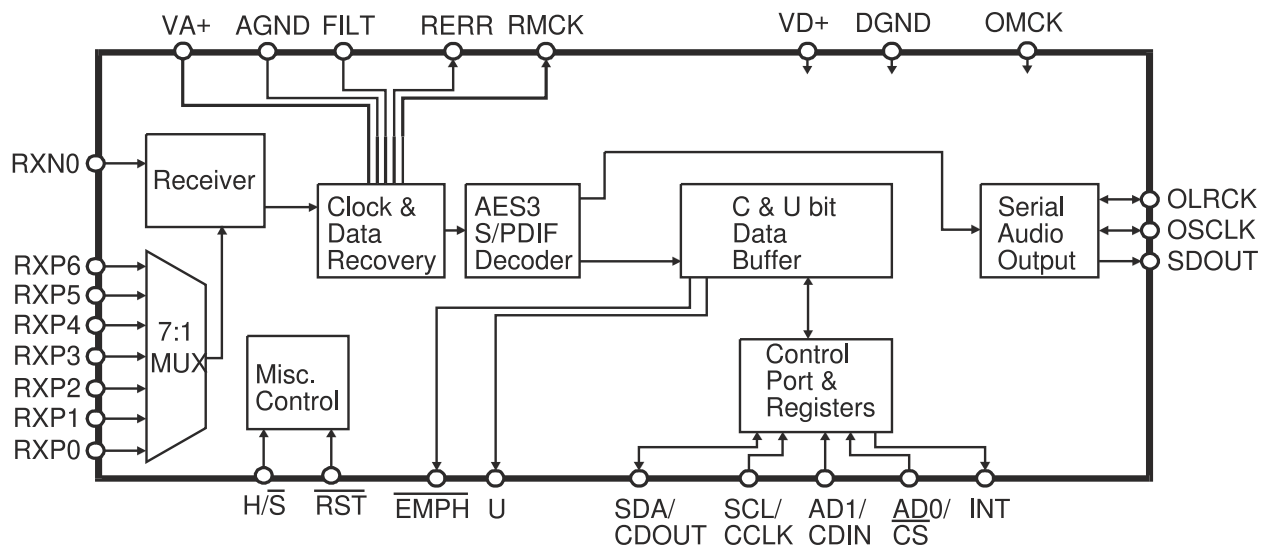
## CS4392 DSP BOARD: U1025



## CS49326 DSP BOARD: U1001

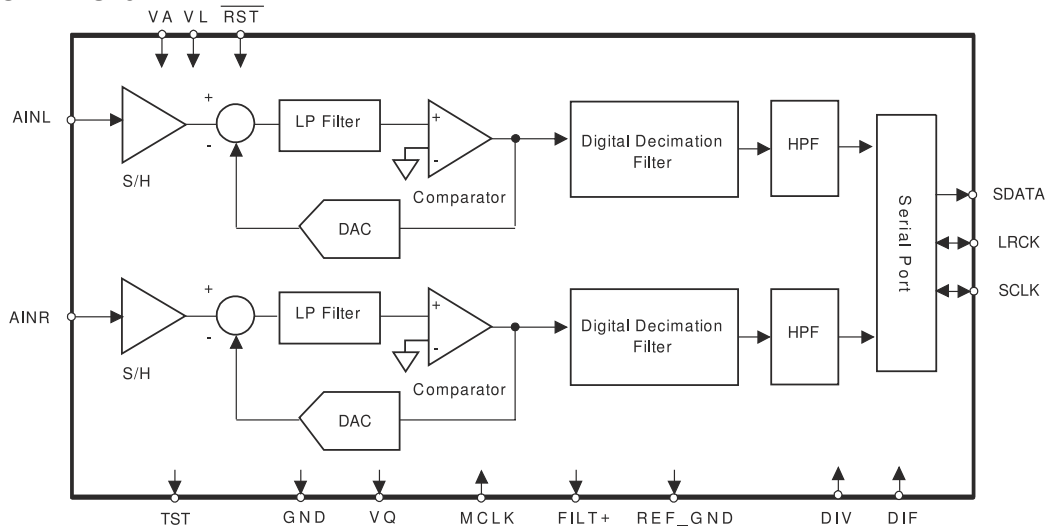


## CS8415A DSP BOARD: U1005

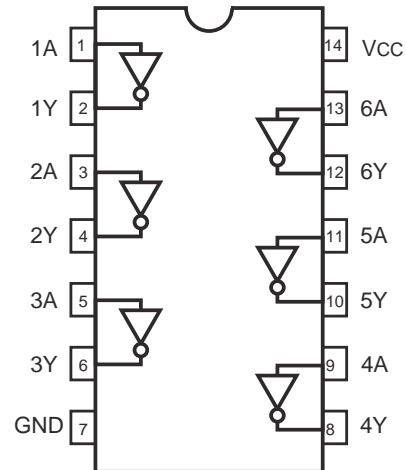




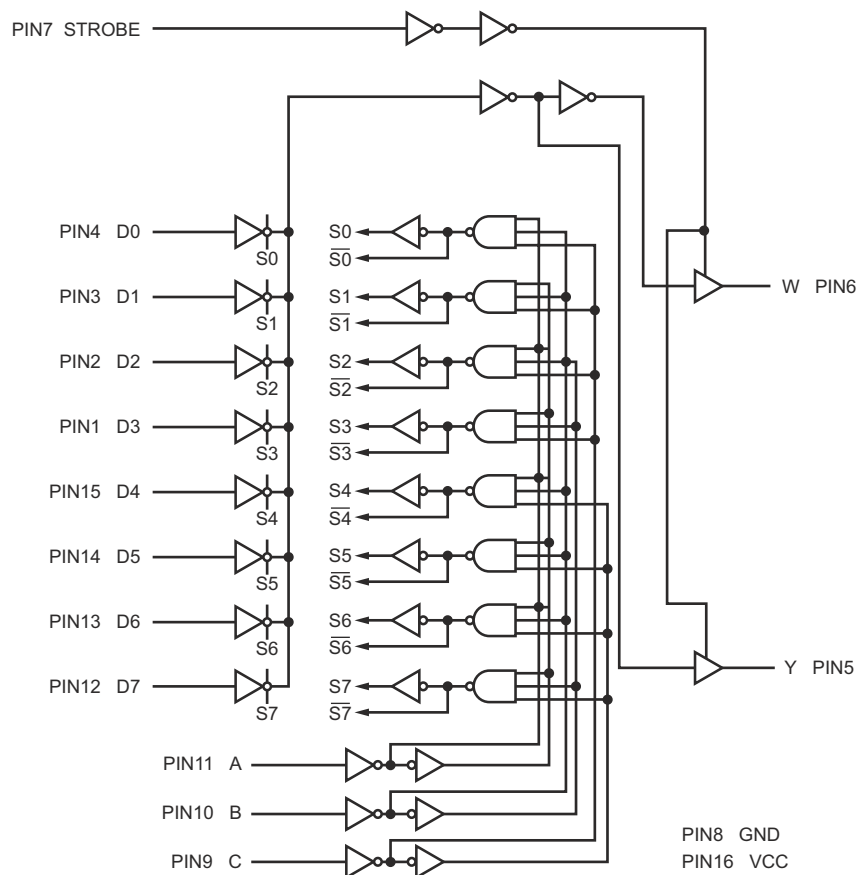
## CS5333KZ DSP BOARD: U1027



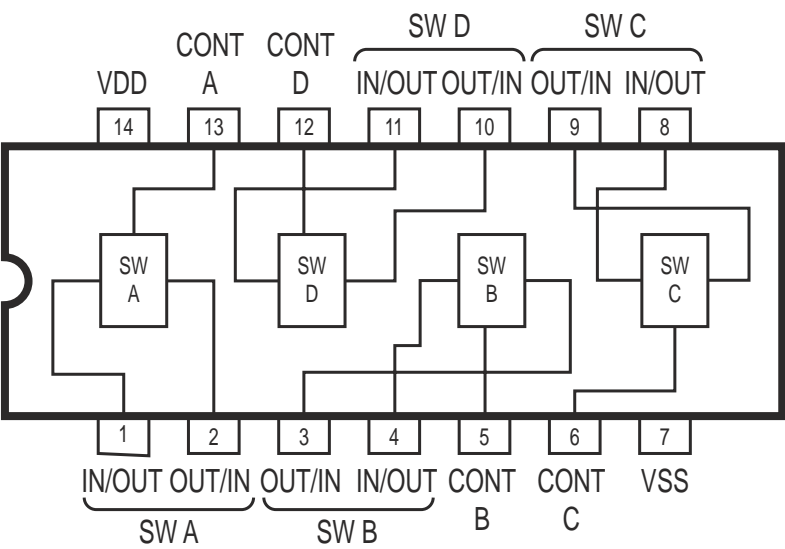
## 74HCU04 DIGITAL BOARD: U1201 & U1202



## 74HC251 DIGITAL BOARD: U1203

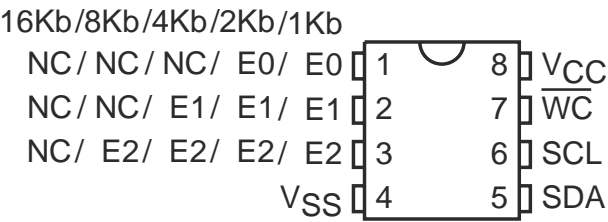


**LC4966**  
**COMPOSITE VIDEO: U4201**  
**S-VIDEO BOARD: U4104**  
**MULTI-CHANNEL: U6103**



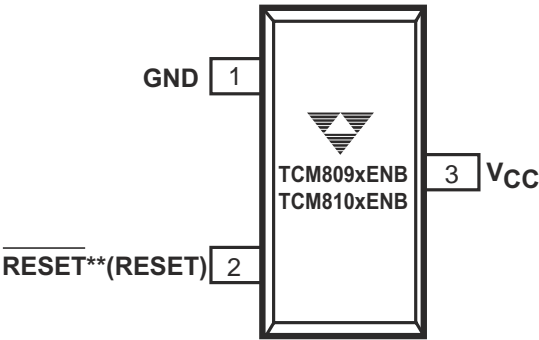
**AT24C16**  
**KEYBOARD: U210**

M24Cxx



**TCM810**  
**KEYBOARD: U214**

**\*3-Pin SOT-23B**

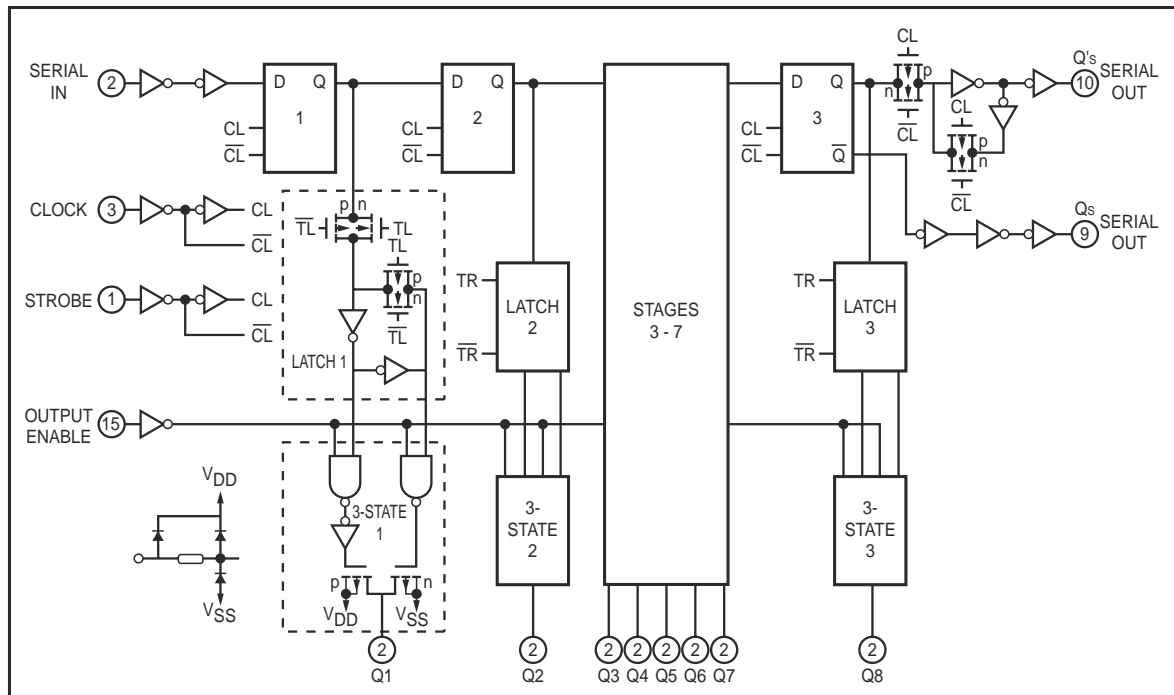


NOTE: \*3-Pin SOT-23B is equivalent to JEDEC TO-236  
 \*\* () is for TCM810

## HCF4094B

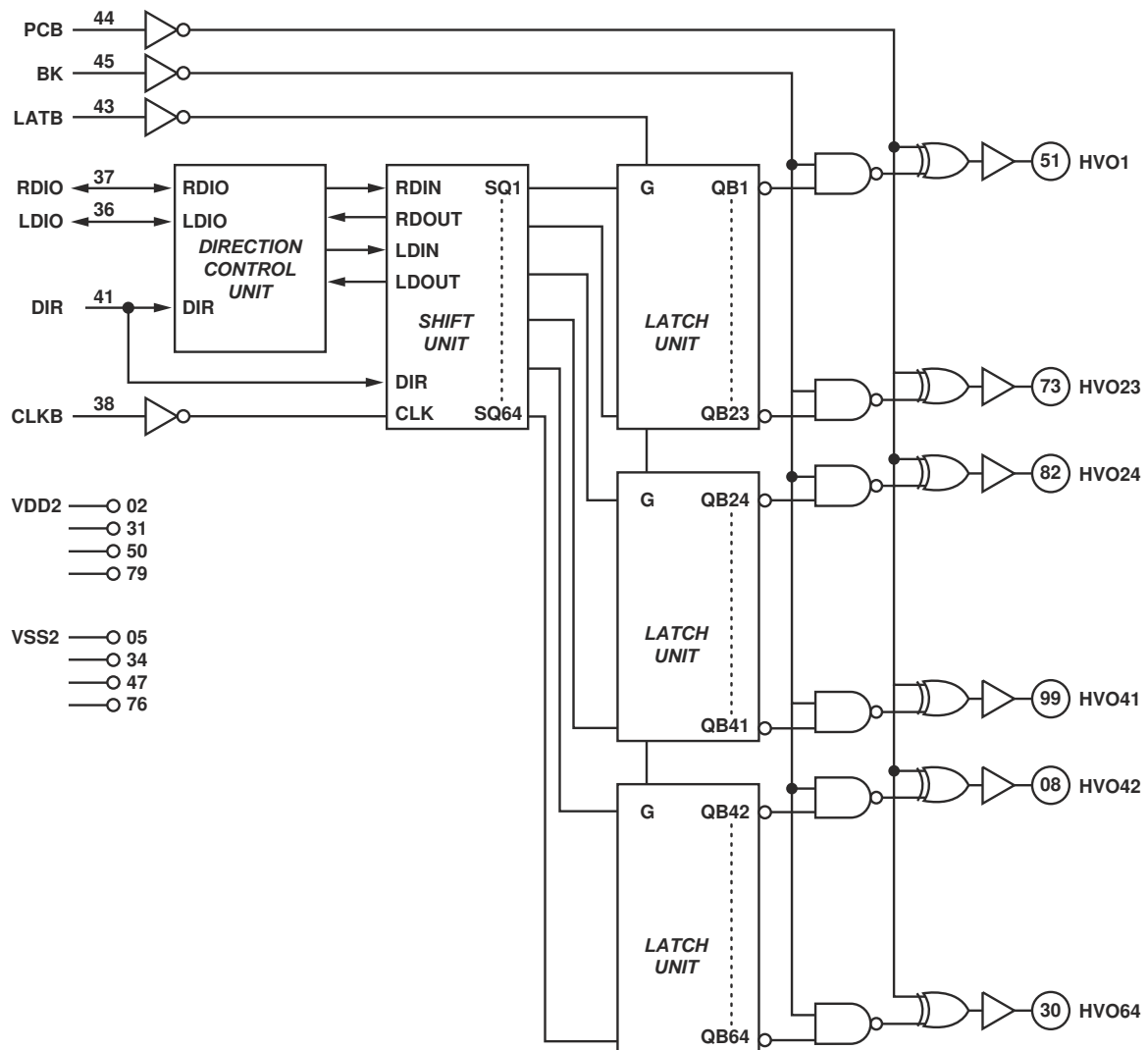
KEYBOARD: U204~U207 & U211

DSP BOARD: U1029



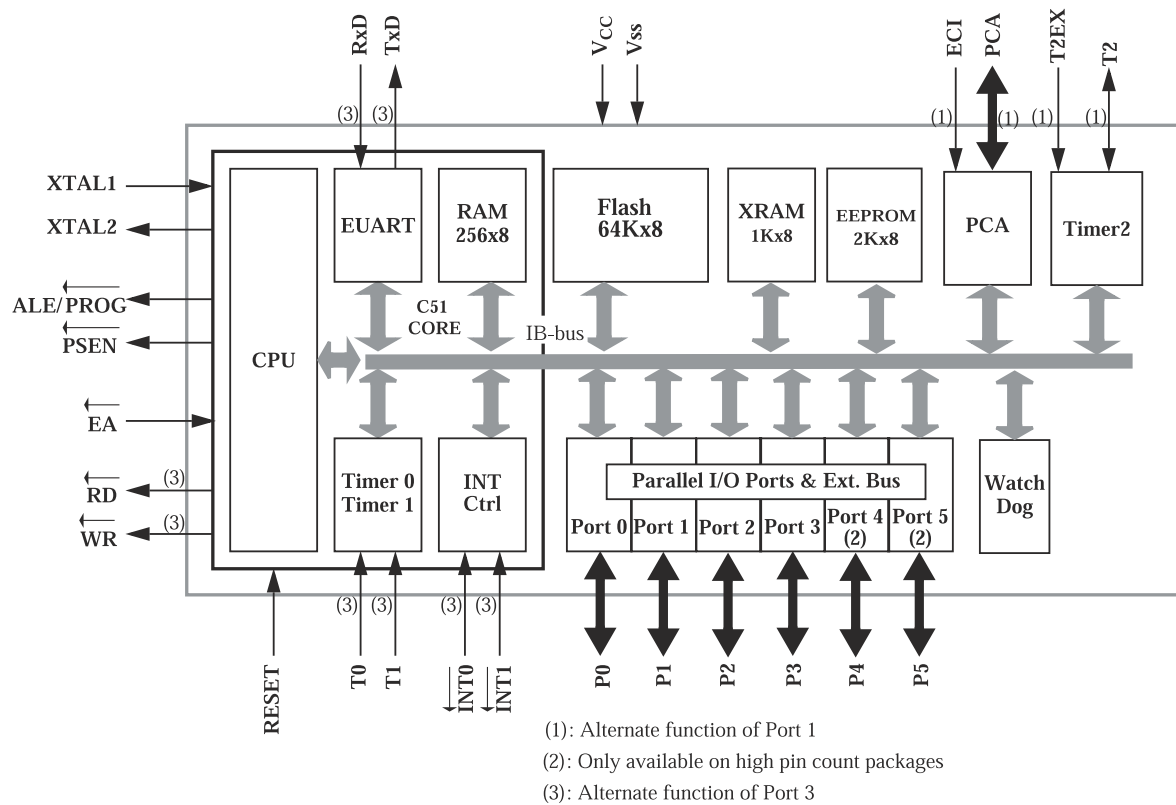
## PT6306

KEYBOARD: U203



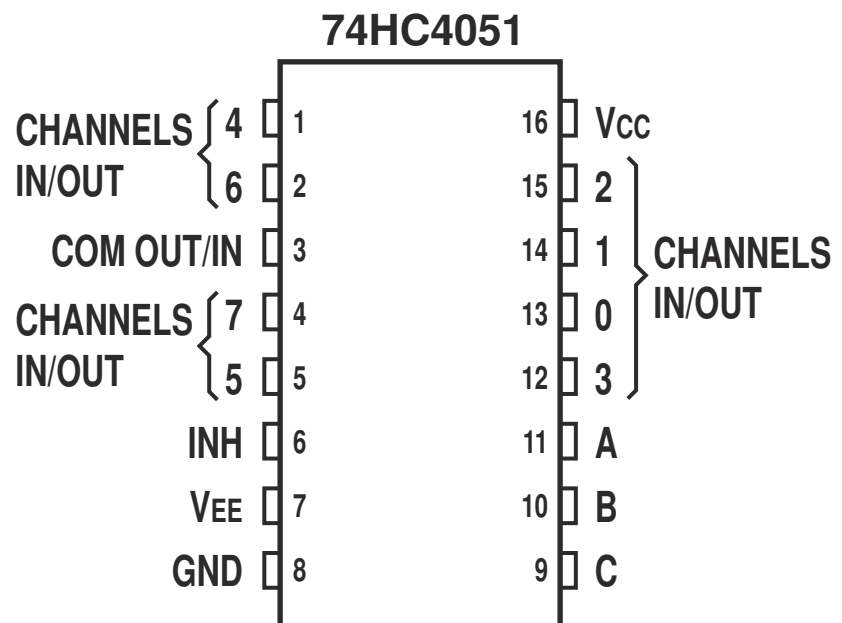
## T89C51RD2

### KEYBOARD: U201 & U202

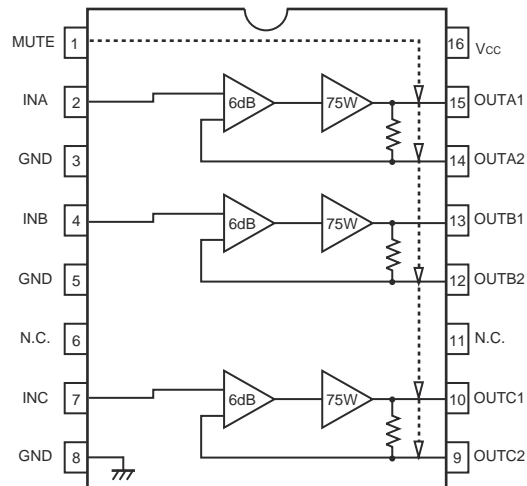


## 74HC4051

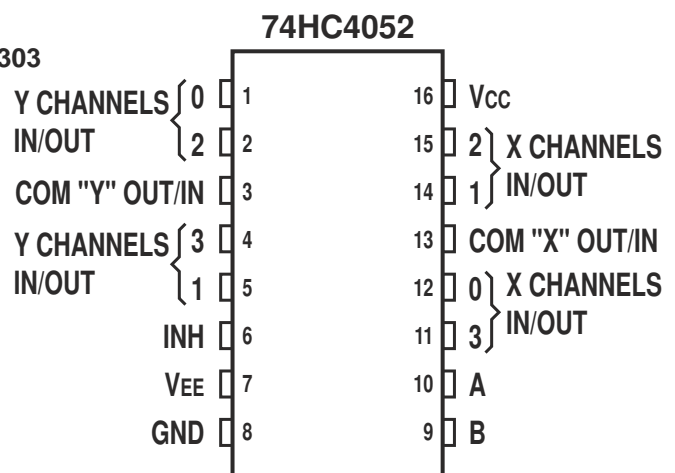
### KEYBOARD: U208



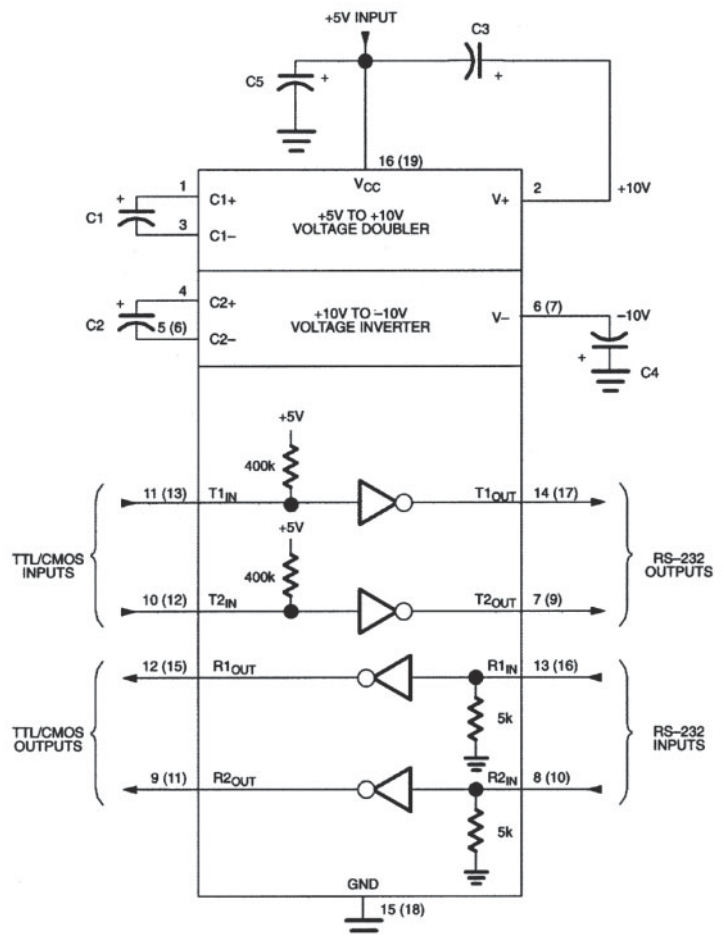
**BA7660FS**  
COMPONENT VIDEO BOARD: U4301



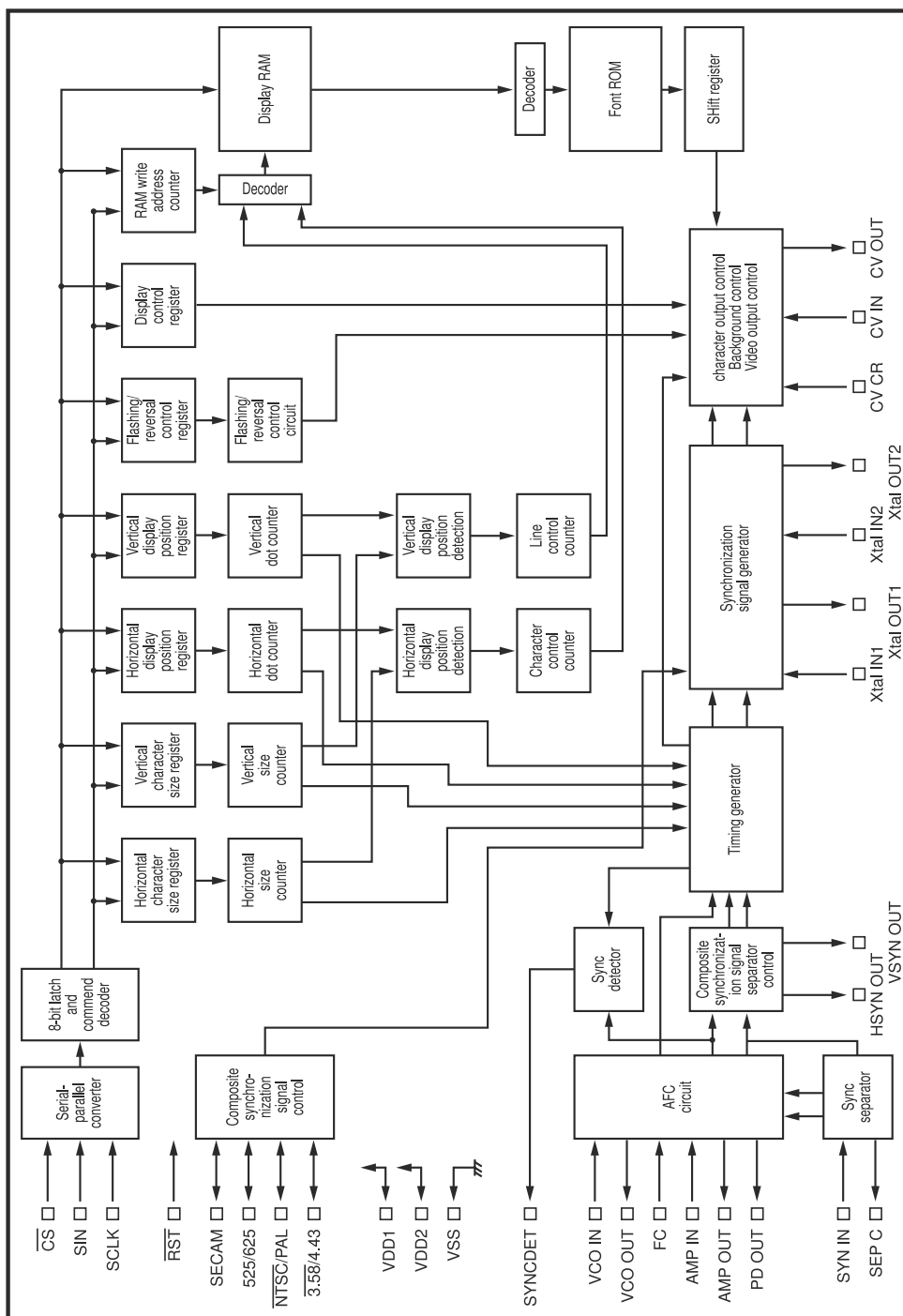
**74HC4052**  
COMPONENT VIDEO BOARD: U4302 & U4303



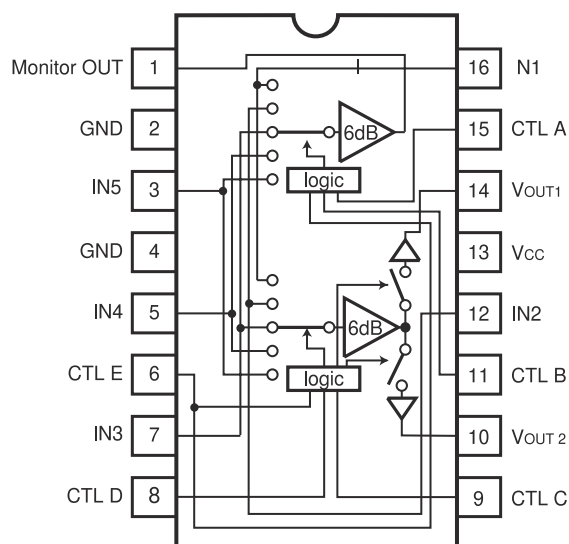
**DS232A**  
DIGITAL BOARD: U901



**LC74763**  
**S-VIDEO BOARD:**  
**U4101**

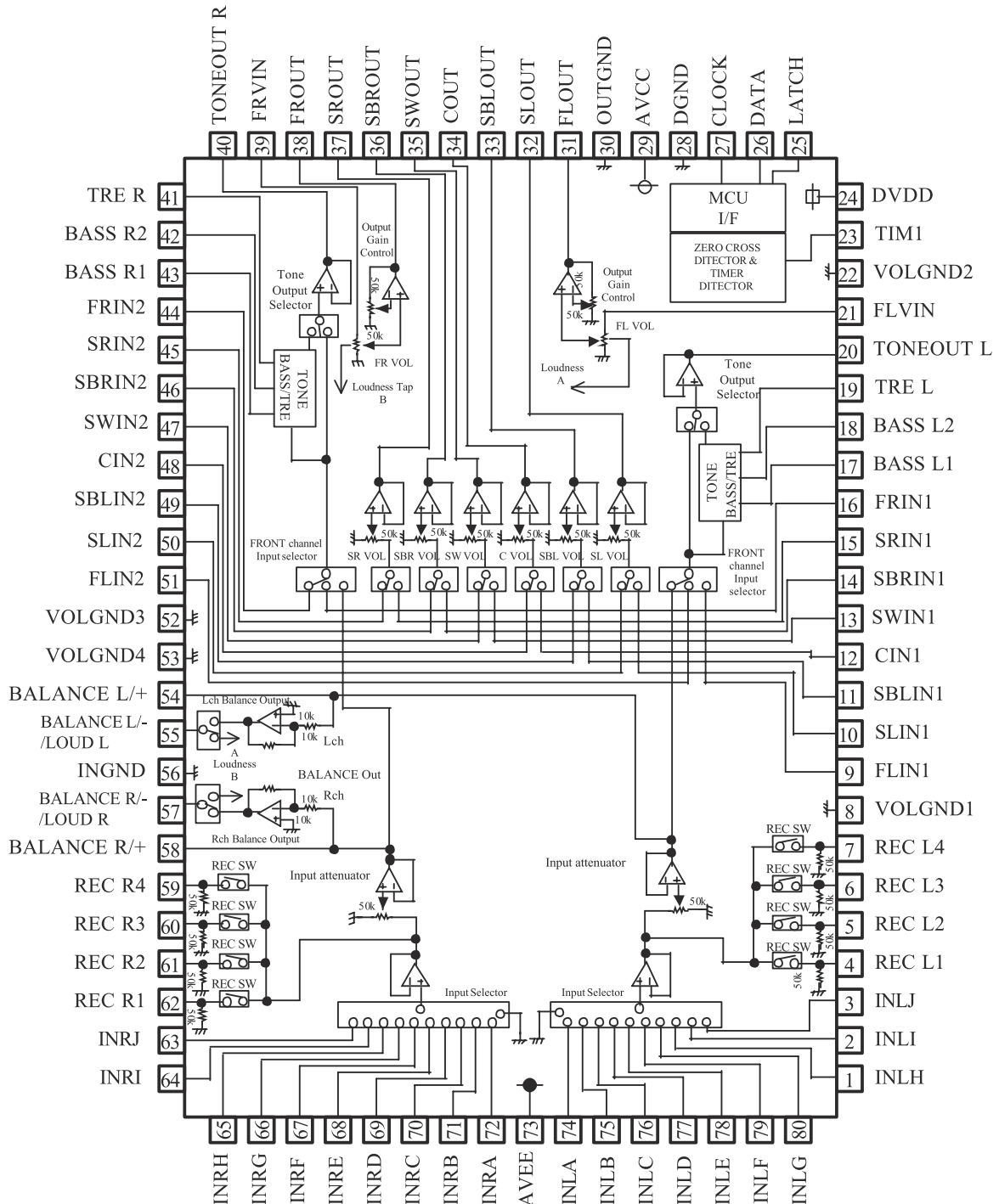


**BA7625**  
**COMPOSITE VIDEO BOARD: U4202 & U4203**  
**S-VIDEO BOARD: U4102 & U4103**

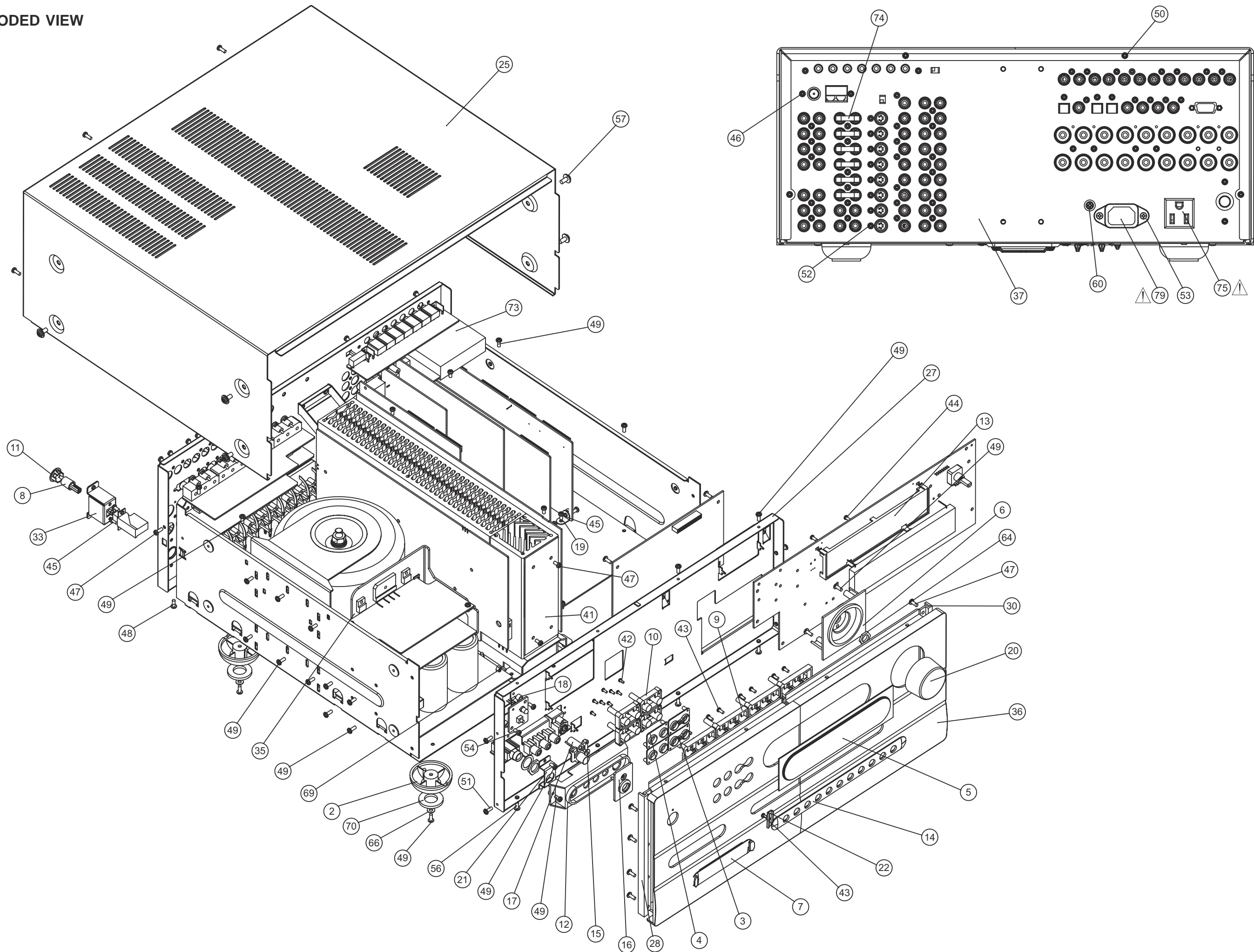


# M61516FP

## MULTI-CHANNEL BOARD: U6101 & U6102

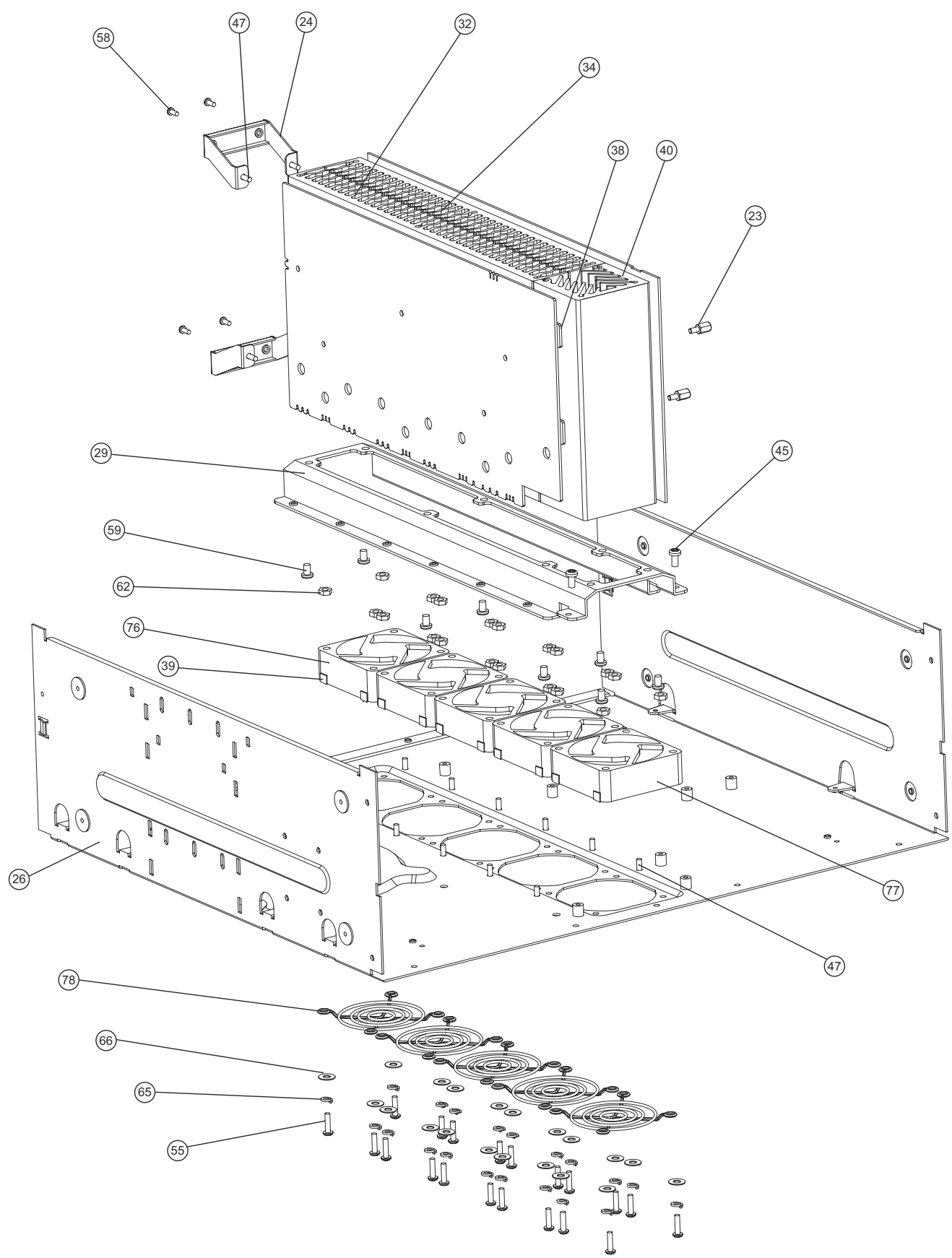


EXPLODED VIEW

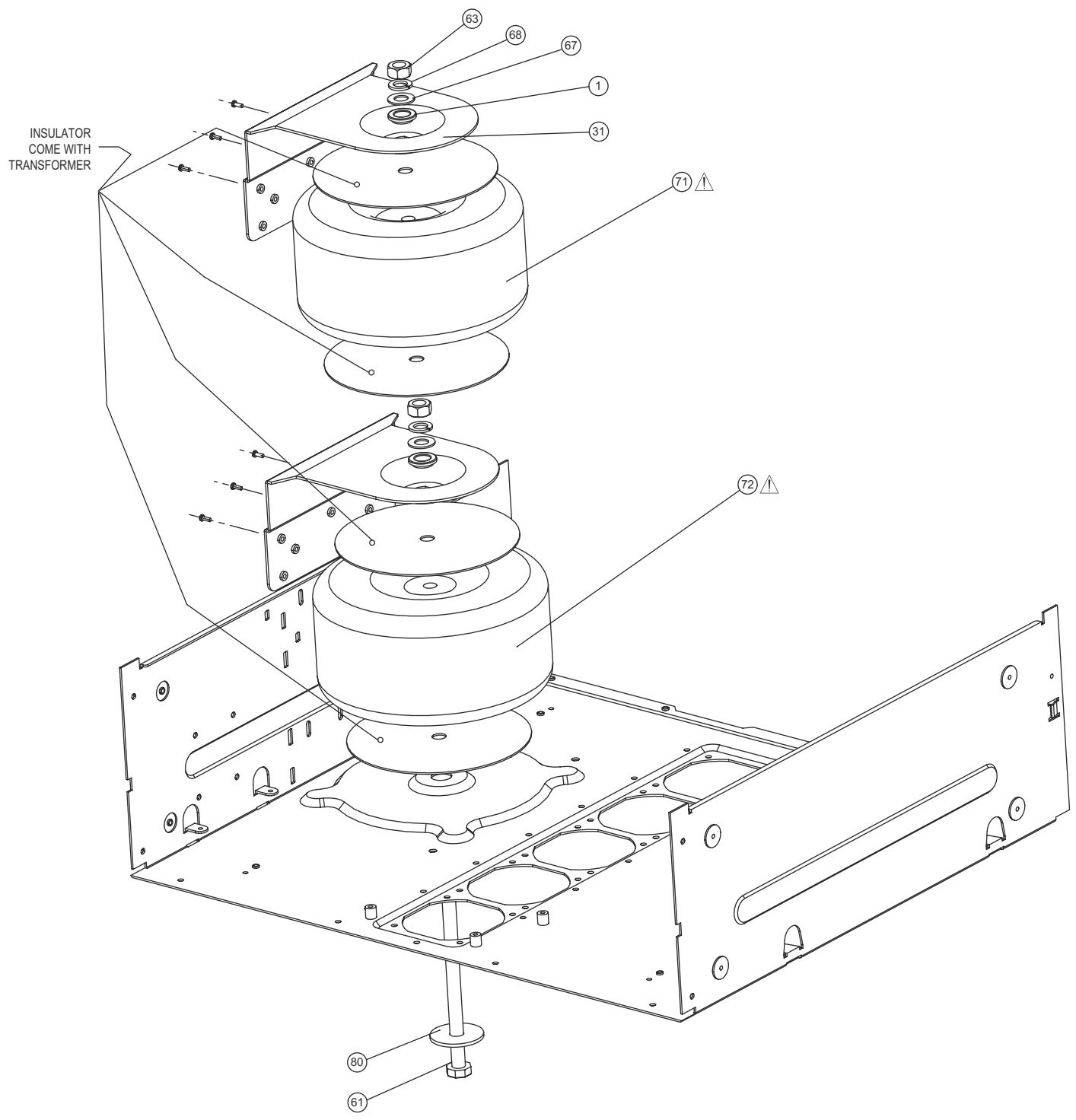




EXPLODED VIEW



EXPLODED VIEW



## EXPLODED VIEW PARTS LIST

Item	Part Number	Description	Qty
1	02-0000020-00-00	NYLON OD18 X 9.3 X 3.5mm WR-1809	2
2	10-0163017-01-00	PLASTIC FOOT DOME SHAPE	4
3	10-0163045-72-00	LINKED GOGGLE BEZEL	2
4	10-0163055-72-01	DUO GOGGLE BEZEL	2
5	10-0752001-00-10	WINDOW LENS	1
6	10-0752005-72-00	VOLUME BEZEL	1
7	10-0752007-72-00	VIDEO COVER	1
8	10-0752022-02-00	POWER BUTTON BLACK	1
9	10-0752032-72-01	INPUT BUTTON	4
10	10-0752042-72-01	DUO BUTTON	4
11	10-0752045-01-00	POWER BUTTON BEZEL	1
12	10-0752065-01-00	VIDEO HOUSING	1
13	10-0752075-00-00	DISPLAY BRACKET	1
14	10-0762035-72-01	INPUT BUTTON LOZENGE	1
15	10-0772011-00-00	LED LENS ROUND	1
16	10-0772022-72-01	POWER BUTTON TACT ACTIVATE	1
17	10-0772045-72-01	POWER BUTTON BEZEL	1
18	11-0163035-80-00	METAL SPACER OD6 X ID3.2 X 4.5mm	2
19	11-0570075-80-01	L BRACKET R.1	2
20	11-0752002-72-00	VOLUME KNOB ASSY	1
21	11-0752065-80-00	PHONE BRACKET	1
22	11-0752075-80-00	DUMMY BRACKET	1
23	11-0762005-80-00	HEX SPACER AF5.5 H8+6	10
24	11-0762095-80-00	HTSK SUPPORT BRACKET	2
25	11-0772003-85-11	TOP COVER	1
26	11-0772004-80-07	BOTTOM CABINET	1
27	11-0772025-80-00	SUBFASCIA	1
28	11-0772028-95-00	SIDE CAP L	1
29	11-0772035-80-00	LARGE FAN MOUNTING BRACKET	1
30	11-0772038-95-00	SIDE CAP R	1
31	11-0772055-80-00	TRANSFORMER BRACKET	2
32	11-0772058-94-02	EXTRUDED HEATSINK L	1
33	11-0772065-80-00	POWER BUTTON BRACKET	1
34	11-0772068-94-00	EXTRUDED HEATSINK R	1
35	11-0772078-80-00	HEATSINK-RECTFER	1
36	11-0773000-95-10	FASCIA	1
37*AH	11-0773006-94-11	REAL PANEL	1
37*C	11-0773016-94-10	REAR PANEL	1
38	11-0773075-80-00	MOUNTING BRACKET	4
39	11-0773085-80-00	FAN SCREW BRACKET	20
40	11-0773098-94-00	U-SHAPE HTSK	1
41	12-0773001-70-00	FIBRE PAPER 140 x 54 x 0.8mm UL GRADE	1
42	13-0200502-22-00	SELF TAP SCREW 2X5 TYPE iBî NI PLT	8
43	13-0260600-02-00	SELF TAP SCREW 2.6 X 6 P/H TYPE iAi NI PLT	8
44	13-0260803-02-00	SELF TAP SCREW 2.6 X 8 B/H TYPE iAi NI PLT	16
45	14-0300600-02-00	MACHINE SCREW M3 X 6 P/H NI PLT	16
46	14-0300600-04-00	MACHINE SCREW M3 X 6 P/H BLK	4
47	14-0300600-52-00	SELF TAP SCREW 3 X 6 P/H NI-PLT TYPE iBî	36
48	14-0300603-54-00	TAPTITE SCREW 3 X 6 B/H TYPE iBî BLK	4
49	14-0300800-53-00	SELF TAP SCREW 3 X 8 B/B ZINC PLATED	46
50	14-0300800-54-00	SELF TAP SCREW 3 X 8 P/H BLK TYPE iBî	4


Item	Part Number	Description	Qty
51	14-0300803-44-00	TAPTITE SCREW 3 X 8 B/H TYPE iSî BLK PLT	4
52	14-0300803-54-00	TAPTITE SCREW 3 X 8 B/H TYPE iBî BLK PLT	52
53	14-0300804-54-00	TAPTITE SCREW M3 X 8 K/H TYPE iBî BLK PLT	10
54	14-0301000-54-00	TAPTITE SCREW 3 X 10 P/H TYPE iBî BLK	8
55	14-0301400-02-00	MACHINE SCREW M3 X 14 B/H NI-PLT	20
56	14-0350803-52-00	TAPTITE SCREW 3.5 X 8.0 B/H TYPE iBî NI PLT	5
57	14-0400802-04-00	MACHINE SCREW M4 X 8 WASHER HEAD BLK	8
58	14-0400803-54-00	TAPTITE SCREW 4 X 8 B/H BLK TYPE-B	4
59	14-0400808-54-00	TAPTITE SCREW 4 X 8 C/H TYPE -B BLK	8
60	14-0401002-04-00	MACHINE SCREW M4 X 10 WASHER HEAD BLK	1
61	14-0801515-03-02	HEX BOLT M8 L=150mm ZN PLT	1
62	15-0300240-05-20	NUT M3 X 2.4mm	20
63	15-0807600-05-30	HEX NUT M8 X 6.5 THK	2
64	15-0900220-11-30	NUT ZINC PLATED M9.0 X 2.2mm 11p	1
65	16-0320560-09-20	SPRING WASHER I/D 3.2 X O/D 5.6 0.9mm THK	50
66	16-0350080-04-35	STEEL WASHER I/D 3.5 X O/D 8.0 0.4mm THK ZINC PLT	24
67	16-0850160-10-30	METAL WASHER ID8.5 X OD16 X 1.0mm NI PLT	2
68	16-0851500-12-30	SPRING WASHER I/D 8.5 X O/D 12.5 X 1.9THK	2
69	17-0500960-00-01	PCB SUPPORTER iKSSî	3
70	17-1402603-30-22	RUBBER FOOT I/D14 X O/D26 X 3 PORON HH-48C	4
71 ⚠	25-0090062-00-21	XFORMER PW TOROIDAL 120V/240V TI-033080	1
72 ⚠	25-0090063-00-21	XFORMER PW TOROIDAL 120V/240V TI-033081	1
73*AH	29-4000004-00-38	AM/FM TUNER MODULE KST-MB114MA0-23	1
73*C	29-4000002-00-38	AM/FM TUNER MODULE KST-MB114MA1-23	1
74	34-0061030-00-67	JUMPER PLUG PITCH 14mm	7
75*AH ⚠	34-0101003-00-63	AC OUTLET 3 PINS US POLARIZED SS-6B-1-NY	1
75*C ⚠	34-0100002-00-78	AC OUTLET EURO CEE 7 2.5A/250V A302D0060P	1
76	37-2011230-02-63	FAN DC 60 X 60 X 20mm 12V 0.13A 3000RPM W/450mm	3
77	37-2011230-03-63	FAN DC 60 X 60 X 20mm 12V 0.13A 3000RPM W/350mm	2
78	39-0000008-00-63	FAN GUARD 60mm DFG-60	5
79 ⚠	34-0101000-00-67	AC SOCKET IEC 15A/250V	1
80	16-0850300-20-30	METAL WASHER ID8.5 X OD30 X 2.0mm	1

**NOTE: THE COMPONENTS IDENTIFIED BY ⚠ MARK ARE CRITICAL FOR RISK OF FIRE AND ELECTRICAL SHOCK. REPLACE ONLY WITH PART NUMBER SPECIFIED.**

<\*AH > : USA, CANADIAN MODEL ONLY.

<\*C > : EUROPEAN MODEL ONLY.

## ELECTRICAL PARTS LIST (refer to schematic diagram for non critical component values)

Reference No.	Part No.	Description
<b><u>POWER AMP MODULE</u></b>	95-0907735-12-01	POWER AMPLIFIER MODULE
<b><u>FRONT &amp; CENTER AMP BOARD PCB ASSEMBLY</u></b>	80-0907730-40-00	FRONT AND CENTER AMP ASSEMBLY
<b><u>CAPACTIORS</u></b>		
C501,C513,C525,C801	22-3476052-00-43	CAP ELEC SS 4.7uF 50V 20% 85C
C503,C515,C527,C805	22-4110203-10-28	CAP MYLAR MCC-R 1000P 100V 10%
C505,C517,C529,C809	22-3471022-00-28	CAP ELEC GR 470uF 16V 20% 85C
C508,C519,C531,C815	22-4115403-10-10	CAP MYLAR KT-G 150nF 100V 10%
C510,C511,C521,C522,C534,C535, C819,C821	22-3101082-00-28	CAP ELEC GR 100uF 100V 20%
C537-C539,C823	22-4210402-00-31	CAP MPF 0.1uF 63V 5% DMF 5 SERIES
C556-C558	22-1223150-28-39	CAP CER KK 0.022uF 50V 10%
C565,C566	22-3470022-00-43	CAP ELEC SS 47uF 16V 20% 85C
<b><u>DIDOES</u></b>		
D501-D503,D505-D507,D509-D514, D522-D528,D531-D536,D801,D803, D805,D820,D821,D8113	20-0000000-00-13	DIODE SW 4NS DO35 1N4148
D529,D530	20-3222002-02-01	DIODE ZENER BZX55 22V 1/2W 5%
<b><u>COILS</u></b>		
L501-L503,L801	24-1000001-00-28	AIR COIL 0.2uH 10% 1 X 9 X 13.5 TURNS
<b><u>RELAYS</u></b>		
M501,M502,M505	32-3124051-03-40	RELAY POWER DC24V 5A/250V 2P1T
<b><u>THERMISTORS</u></b>		
M504,M507	23-6110100-00-08	THERMISTOR PTC 100 OHM
<b><u>THERMAL PROTECTOR</u></b>		
M506 	39-0000007-00-15	THERMAL CUT OFF SWITCH 90C UP72
<b><u>TRANSISTORS</u></b>		
Q501-Q503,Q511,Q513-Q515,Q523, Q525-Q527,Q535,Q801,Q803,Q805,Q821	21-0000410-00-12	XTR SS NPN HFE160-320 130MHz 2SC2362KF
Q504,Q506,Q516,Q518,Q529,Q530, Q562,Q565,Q568,Q809,Q811,Q854	21-1011210-50-12	XTR PW PNP 1A/100V TO-126 2SD600KE
Q505,Q508,Q517,Q520,Q528,Q532, Q815,Q850	21-1011611-30-12	XTR PW PNP 1.5A/160V TO-220ML 2SA1606E
Q507,Q519,Q531,Q813	21-1011610-30-12	XTR PW NPN 1.5A/160V TO-220ML 2SC4159E
Q510,Q522,Q533,Q817	21-1082310-10-00	XTR PW NPN 15A/230V TO-3P 2SC5200-O/R
Q521,Q534,Q819	21-1182310-10-00	XTR PW PNP 15A/230V TO-3P 2SA1943-O/R
Q543-Q545	21-0000380-70-14	XTR SS NPN HFE20 250MHz DTC-123ESA
Q550,Q551,Q553-Q557,Q561,Q564, Q567,Q807,Q823,Q824	21-0100410-00-12	XTR SS PNP HFE 280-560 110MHz 2SA1016KG-AA
Q563,Q566,Q569,Q855	21-1011211-50-12	XTR PW PNP 1A/100V TO-126 2SB631KE

<u>Reference No.</u>	<u>Part No.</u>	<u>Description</u>
<b>RESISTORS</b> R522,R545,R571,R835 R523,R547,R574,R843 R527,R528,R548,R556,R575,R576, R829,R837 R589-R591,R857	30-0102106-01-64 23-4228280-08-20 23-2100230-00-00  23-2100250-00-01	VR SEMI-FIX RES CF 1K OHM B 30% RES RN 0.22 OHM 5% 5W SIL 3 PIN RES MO 10 OHM 5% 1/2W  RES MO 10 OHM 5% 2W
<b><u>SURR. LEFT/RIGHT/BACK AMP BOARD PCB ASSEMBLY</u></b>	80-0907730-18-00	SURROUND LEFT/RIGHT/BACK AMP ASSEMBLY
<b>CAPACITORS</b> C554 C801,C802,C835 C805,C806,C836 C809,C810,C837 C815,C816,C840 C819-C822,C842,C843 C823,C824,C844 C871,C873,C874 C872	22-3220022-00-43 22-3476052-00-43 22-4110203-10-28 22-3471022-00-28 22-4115403-10-10 22-3101082-00-28 22-4210402-00-31 22-3102032-30-28 22-3100022-00-43	CAP ELEC GS 22uF 16V 20% 85C CAP ELEC SS 4.7uF 50V 20% 85C CAP MYLAR MCC-R 1000P 100V 10% CAP ELEC GR 470uF 16V 20% 85C CAP MYLAR KT-G 150nF 100V 10% CAP ELEC GR 100uF 100V 20% CAP MPF 0.1uF 63V 5% DMF 5 SERIES CAP ELEC KM 1000uF 25V 20% 105C CAP ELEC SS 10uF 16V 20% 85C
<b>DIODES</b> D801-D809,D814-D818,D820-D825, D871,D872,D875 D873 D879	20-0000000-00-13  20-1001401-20-44 20-3133912-20-36	DIODE SW 4NS DO35 1N4148  DIODE RECT 1A/400V DO41 1N4004 DIODE ZENER BZX85 3.3V 1W 5%
<b>COILS</b> L801-L803	24-1000001-00-28	AIR COIL 0.2uH 10% 1 X 9 X 13.5 TURNS
<b>RELAYS</b> M801,M802	32-3124081-02-40	RELAY POWER DC24V 8A/250V 2P1T
<b>THERMISTOR</b> M807	23-6110100-00-08	THERMISTOR PTC 100 OHM
<b>TRANSISTORS</b> Q509,Q819,Q820,Q846  Q512,Q807,Q808,Q823,Q824,Q826, Q827,Q834,Q835,Q837 Q545,Q546,Q801-Q806,Q821,Q822, Q838-Q840,Q847 Q809-Q812,Q841,Q842,Q854,Q856,Q858 Q813,Q814,Q843  Q815,Q816,Q844,Q850-Q852  Q817,Q818,Q845  Q829,Q848	21-1182310-10-00  21-0100410-00-12 21-0000410-00-12 21-1011210-50-12 21-1011610-30-12 21-1011611-30-12 21-1082310-10-00 21-0000380-70-14	XTR PW PNP 15A/230V TO-3P 2SA1943-O/R XTR SS PNP HFE 280-560 110MHz 2SA1016KG-AA XTR SS NPN HFE160-320 130MHz 2SC2362KF XTR PW PNP 1A/100V TO-126 2SD600KE XTR PW NPN 1.5A/160V TO-220ML 2SC4159E XTR PW PNP 1.5A/160V TO-220ML 2SA1606E XTR PW NPN 15A/230V TO-3P 2SC5200-O/R XTR SS NPN HFE20 250MHz DTC-123ESA

<u>Reference No.</u>	<u>Part No.</u>	<u>Description</u>
Q855,Q857,Q859	21-1011211-50-12	XTR PW PNP 1A/100V TO-126 2SB631KE
Q871	21-1036003-50-06	XTR PW 3A/60V TO-126 2SB772Q
Q872	21-0000390-70-14	XTR SS NPN HFE270-560 180MHz 2SC1740S
<b>RESISTORS</b>		
R8103,R843,R844	23-4228280-08-20	RES RN 0.22 OHM 5% 5W SIL 3 PIN
R8110,R857,R858	23-2100250-00-01	RES MO 10 OHM 5% 2W
R829,R830,R837,R838,R894,R898	23-2100230-00-00	RES MO 10 OHM 5% 1/2W
R835,R836,R897	30-0102106-01-64	VR SEMI-FIX RES CF 1K OHM B 30%
<b>REGULATORS</b>		
U871,U872	27-3001201-17-14	I.C. VOLT REG 12V 1A TO-220 NJM7812
U872	27-3000501-17-14	I.C. VOLT REG 5V 1A TO-220 NJM7805FA
<b>DSP BOARD</b>		
<b>PCB ASSEMBLY</b>	80-0907730-65-00	DSP ASSEMBLY
<b>CAPACITORS</b>		
C1004,C1014,C1016,C1062,C1083, C1096,C1100,C1155,C1173,C1174	22-3106052-00-43	CAP ELEC SS 1uF 50V 20% 85C
C1005	22-3226052-00-43	CAP ELEC SS 2.2uF 50V 20% 85C
C1011	22-4210402-00-31	CAP MPF 0.1uF 63V 5% DMF 5 SERIES
C1012,C1072,C1117	22-3101022-00-43	CAP ELEC SS 100uF 16V 20% 85C
C1020,C1021,C1030,C1031,C1040, C1041,C1050,C1051,C1091,C1094	22-3336052-00-43	CAP ELEC SS 3.3uF 50V 20% 85C
C1060,C1073	22-3471022-00-28	CAP ELEC GR 470uF 16V 20% 85C
C1079,C1171,C1172	22-3100022-00-43	CAP ELEC SS 10uF 16V 20% 85C
C1092,C1152-C1154	22-4210502-00-31	CAP MPF 1uF 63V 5% DMF 5 SERIES
C1109-C1112,C1001	22-3470022-00-43	CAP ELEC SS 47uF 16V 20% 85C
C1119,C1133,C1182	22-3102022-00-28	CAP ELEC GR 1000uF 16V 20% 85C
C1137,C1138,C1143,C1144	22-3100052-00-43	CAP ELEC SS 10uF 50V 20% 85C
C1002,C1003,C1008,C1009,C1013, C1015,C1017-C1019,C1061, C1074-C1076,C1078,C1081,C1082, C1090,C1093,C1095,C1099, C1124-C1128,C1150,C1151,C1177,C1178	45-0104056-57-57	CAP CER SMD 0.1uF 50V 20%
C1006,C1121	45-0221055-55-57	CAP CER SMD 220pF 50V 10%
C1007,C1010,C1175,C1176	45-0103055-55-57	CAP CER SMD 10nF 50V 10%
C1022,C1026,C1032,C1036,C1042, C1046,C1052,C1056,C1134-C1136	45-0222055-55-57	CAP CER SMD 2.2nF 50V 10%
C1025,C1029,C1035,C1039,C1045, C1049,C1055,C1059,C1114,C1130,C1131	45-0472055-55-57	CAP CER SMD 4.7nF 50V 10%
C1101-C1108	45-0101055-55-57	CAP CER SMD 100pF 50V 10%
C1132	45-0102055-55-57	CAP CER SMD 1nF 50V 10%
C1139,C1140,C1145,C1146	45-0272055-55-57	CAP CER SMD 2.7nF 50V 10%
C1141,C1142,C1147,C1148,C1024, C1028,C1034,C1038,C1044,C1048, C1054,C1058	45-0561055-55-57	CAP CER SMD 560pF 50V 10%
<b>INDUCTORS</b>		
L1001-L1008	24-0100127-00-28	IND CHOKE 10uH 10%



<u>Reference No.</u>	<u>Part No.</u>	<u>Description</u>
<b>TRANSISTORS</b> Q1001,Q1003	21-0000010-00-46	XTR SS NPN HEF 100 200MHz TO-92 C1815Y
<b>RESISTORS</b> R1001,R1002,R1079,R1083	44-0470120-51-00	RES SMD 4.7K OHM 5% 1/16W 0603
R1003-R1006	44-0330120-51-00	RES SMD 3.3K OHM 5% 1/16W 0603
R1007,R1191-R1194	44-0330920-51-00	RES SMD 33 OHM 5% 1/16W 0603
R1008,R1020-R1022,R1026,R1036, R1040,R1050,R1054,R1064,R1068, R1114,R1131-R1138,R1230	44-0100220-51-00	RES SMD 10K OHM 5% 1/16W 0603
R1009	44-0200320-51-00	RES SMD 200K OHM 5% 1/16W 0603
R1013	44-0120120-51-00	RES SMD 1.2K OHM 5% 1/16W 0603
R1023,R1030,R1037,R1044,R1051, R1058,R1065,R1072,R1120,R1121, R1126,R1127,R1027,R1028,R1033, R1035,R1041,R1042,R1047,R1049, R1055,R1056,R1061,R1063,R1069, R1070,R1075,R1077	44-0150120-51-00	RES SMD 1.5K OHM 5% 1/16W 0603
R1024,R1031,R1038,R1045,R1052, R1059,R1066,R1073	44-0620020-51-00	RES SMD 620 OHM 5% 1/16W 0603
R1078,R1084	44-0220120-51-00	RES SMD 2.2K OHM 5% 1/16W 0603
R1081,R1090,R1091	44-0270110-51-00	RES SMD 2.7K OHM 1% 1/16W 0603
R1082	44-0180110-51-00	RES SMD 1.8K OHM 1% 1/16W 0603
R1092-R1094,R1112,R1113,R1115, R1181-R1184	44-0100020-51-00	RES SMD 100 OHM 5% 1/16W 0603
R1116,R1117,R1122,R1123	44-0562117-51-00	RES SMD 5.62K OHM 1% 1/10W 0603
R1118,R1119,R1124,R1125	44-0118117-51-00	RES SMD 1.18K OHM 1%1/10W 0603
R1130,R1173-R1176	44-0470220-51-00	RES SMD 47K OHM 5% 1/16W 0603
R1166	44-0100120-51-00	RES SMD 1K OHM 5% 1/16W 0603
R1177,R1178	44-0150020-51-00	RES SMD 150 OHM 5% 1/16W 0603
R1195-R1198	44-0200120-51-00	RES SMD 2K OHM 5% 1/16W 0603
R1213-R1216	44-0750920-51-00	RES SMD 75 OHM 5% 1/16W 0603
J1001,J1002,J1101,J1102,R1010, R1099,R1171,R1172,R1217,R1218	44-0000020-51-00	RES SMD 0 OHM 5% 1/16W 0603
<b>ICs</b> U1001	27-9493260-04-70	I.C. DD DTS & MPEG DECODER PLCC CS49326
U1002-U1014	27-0324590-24-00	I.C. OCTAL TRANSCEIVER SMD 74LVC245ATTR
U1004	27-0115790-25-00	I.C. QUAD 2-INPUT SELECTOR SOIC 74HC157MIR
U1005	27-9841500-25-53	I.C. 96KHz AUDIO INTERFACE RE CEIVER CS8415A-CS
U1007	27-2325607-00-88	I.C. EEPROM 256 X 8 BYTE 70nS PDIL W27C02-70
U1008,U1009	27-0657490-18-00	I.C. OCTAL D-FLIP FLOPS 3-STAGE O/P 74LVQ574M
U1010-U1013,U1023,U1028	27-7055320-18-14	I.C. AUDIO LOW NOISE OP-AMP SMD NJM5532M
U1015,U1020	27-3031710-06-00	I.C. REG 1A TO-220(T) LM317T
U1025	27-9439200-24-53	I.C. 24BIT 192KHz STEREO DAC CS4392-KZ
U1026	27-9436000-24-53	I.C. 24BIT 192KHz 6 CH DAC CS4360KZ

<u>Reference No.</u>	<u>Part No.</u>	<u>Description</u>
U1027 U1029	27-9533300-24-53 27-0540940-18-00	I.C. 24BIT 96KHz STEREO A/D CS5333KZ I.C. 8-STAGE SHIFT & STORE BUS REGISTER HCF4094BM1
<b>OSCILLATOR</b> X1001	28-5122200-04-19	CRYSTAL CLOCK OSCILLATOR 12.288MHz 50ppm
<b>AUDIO BOARD</b> <b>PCB ASSEMBLY</b>	80-0907730-11-00	AUDIO ASSEMBLY
<b>CAPACITORS</b> C3101-C3116	22-3220022-00-43	CAP ELEC GS 22uF 16V 20% 85C
<b>RCA JACKS</b> M301-M303	34-4060420-00-60	RCA JACK 6 R-R-R/W-W-W
<b>RESISTORS</b> J3101,J3102	44-0000027-11-00	RES SMD 0 OHM 5% 1/10W 0805
<b>COMPONENT VIDEO BOARD</b> <b>PCB ASSEMBLY</b>	80-0907730-42-00	COMPONENT VIDEO ASSEMBLY
<b>CAPACITORS</b> C4301-C4309 C4310-C4312,C4325 C4313-C4315 C4316,C4318,C4320 C4317,C4319,C4321	22-3226052-00-43 22-3100022-00-43 22-3106052-00-43 22-3101022-00-43 22-3220022-00-43	CAP ELEC SS 2.2uF 50V 20% 85C CAP ELEC SS 10uF 16V 20% 85C CAP ELEC SS 1uF 50V 20% 85C CAP ELEC SS 100uF 16V 20% 85C CAP ELEC GS 22uF 16V 20% 85C
<b>DIODES</b> D4301,D4302	20-0000000-00-13	DIODE SW 4NS DO35 1N4148
<b>RESISTORS</b> J4301-J4303	44-0000027-11-00	RES SMD 0 OHM 5% 1/10W 0805
<b>RCA JACKS</b> M431-M434	34-4032020-00-60	RCA 3 G-BL-R PCB MOUNT GOLD RS-354G-18
<b>ICs</b> U4301  U4302,U4303	27-5176600-18-23  27-0140520-18-00	I.C. VIDEO 3-CH 75 OHM DRIVER BA7660FS I.C. SINGLE DUAL TRIPLE M74HC4052MIR
<b>DIGITAL BOARD</b> <b>PCB ASSEMBLY</b>	80-0907730-47-00	DIGITAL ASSEMBLY
<b>CAPACITORS</b> C1213,C1214,C1221	22-3226052-00-43	CAP ELEC SS 2.2uF 50V 20% 85C

<u>Reference No.</u>	<u>Part No.</u>	<u>Description</u>
C1222,C1223 C901,C902,C903,C904 C905	22-3101022-00-43 22-3106052-00-43 22-3100022-00-43	CAP ELEC SS 100uF 16V 20% 85C CAP ELEC SS 1uF 50V 20% 85C CAP ELEC SS 10uF 16V 20% 85C
<b>RCA JACK</b> J1001-J1004,J1007	34-4010320-00-60	RCA JACK 1 BLACK PCB MOUNT GOLD
<b>FIBRE OPTICAL</b> J1005,J1006	26-6701380-01-16	FIBRE OPTIC RECEIVING UNIT GP1FA550RZ
J1008	26-6691386-00-16	FIBRE OPTIC TRANSMITTER GP1FA550TZ
<b>ICs</b> U1201,U1202	27-0804990-18-00	I.C. HEX INVERTER SMD SOP M74HCU04MIR
U1203	27-0125190-18-00	I.C. 8-CH MULTIPLEXER-SSOP 74HC251M1R
U901	27-0723200-18-43	I.C. DUAL RS-232 TRANSMITTER SMD DS232AR
<b>ISC SURROUND BOARD</b> <b>PCB ASSEMBLY</b>	80-0907730-74-01	ISC SURROUND ASSEMBLY
<b>CAPACITORS</b> C8201-C8204 C8206-C8210	22-4210402-00-31 22-3100022-00-43	CAP MPF 0.1uF 63V 5% DMF 5 SERIES CAP ELEC SS 10uF 16V 20% 85C
<b>DIODES</b> D8201 D8202,D8203 D8204,D8205 D8206,D8207	20-5010401-50-47 20-1912601-90-45 20-3212002-00-36 20-0000000-00-13	DIODE BRI 10A/400V KBK10G DIODE RECT 12A/600V TO-220 TYN612 DIODE ZENER BZX55 12V 1/2W 5% DIODE SW 4NS DO35 1N4148
<b>TRANSISTORS</b> Q8201,Q8203,Q8205  Q8202,Q8204  Q8206,Q8207	21-0000010-00-46  21-0100100-00-46  21-0100410-00-12	XTR SS NPN HEF 100 200MHz TO-92 C1815Y  XTR SS PNP HFE 100 200MHz TO-92 A1015Y  XTR SS PNP HFE 280-560 110MHz 2SA1016KG-AA
<b>RESISTORS</b> R8201,R8202 R8203  R8222,R8223	23-4228280-08-20 30-0503106-02-22  23-2402260-00-00	RES RN 0.22 OHM 5% 5W SIL 3 PIN VR SEMI-FIXED RESISTOR CF 50K OHM 30% RES MO 4K OHM 5% 3W
<b>IC</b> U8102	27-7055320-18-14	I.C. AUDIO LOW NOISE OP-AMP SMD NJM5532M

<u>Reference No.</u>	<u>Part No.</u>	<u>Description</u>
<b><u>ISC FRONT BOARD</u></b> <b><u>PCB ASSEMBLY</u></b>	80-0907730-74-00	ISC SURROUND ASSEMBLY
<b><u>CAPACITORS</u></b> C8101-C8104,C816-C820 C8106,C8107,C8108,C8109,C9110	22-4210402-00-31 22-3100022-00-43	CAP MPF 0.1uF 63V 5% DMF 5 SERIES CAP ELEC SS 10uF 16V 20% 85C
<b><u>DIDOES</u></b> D8101 D8102,D8103 D8104,D8105 D8106,D8107	20-5010401-50-47 20-1912601-90-45 20-3212002-00-36 20-0000000-00-13	DIODE BRI 10A/400V KBK10G DIODE RECT 12A/600V TO-220 TYN612 DIODE ZENER BZX55 12V 1/2W 5% DIODE SW 4NS DO35 1N4148
<b><u>TRANSISTORS</u></b> Q8101,Q8103,Q8105  Q8102,Q8104  Q8106,Q8107	21-0000010-00-46  21-0100100-00-46  21-0100410-00-12	XTR SS NPN HEF 100 200MHz TO-92 C1815Y XTR SS PNP HFE 100 200MHz TO-92 A1015Y XTR SS PNP HFE 280-560 110MHz 2SA1016KG-AA
<b><u>RESISTORS</u></b> R8101,R8102 R8103  R8122,R8123 R837-R839 R840,R841	23-4228280-08-20 30-0503106-02-22  23-2402260-00-00 23-5228330-00-00 23-2228232-00-00	RES RN 0.22 OHM 5% 5W SIL 3 PIN VR SEMI-FIXED RESISTOR CF 50K OHM 30% RES MO 4K OHM 5% 3W RES FUSIBLE 0.22 OHM 10% 1/2W RES MO 0.22 OHM 5% 1/2W
<b><u>IC</u></b> U8101	27-7055320-18-14	I.C. AUDIO LOW NOISE OP-AMP SMD NJM5532M
<b><u>KEYBOARD</u></b> <b><u>PCB ASSEMBLY</u></b>	80-0907730-02-00	KEYBOARD ASSEMBLY
<b><u>CAPACITORS</u></b> C208-C211 C212 C214 C223 C224 C241,C242 C251-C254 C255 C201,C202,C213,C215-C222,C256	22-3470022-00-43 22-3102012-00-28 22-3107052-00-43 22-1103150-17-39 22-3472032-00-28 45-0102055-55-57 45-0330055-55-57 22-3106052-00-43 45-0104056-57-57	CAP ELEC SS 47uF 16V 20% 85C CAP ELEC GR 1000uF 10V 20% 85C CAP ELEC SS 0.1uF 50V 20% 85C CAP CER KK 10nF 50V 10% CAP ELEC GR 4700uF 25V 20% 85C CAP CER SMD 1nF 50V 10% X7R 0603 CAP CER SMD 33pF 50V 10% X7R 0603 CAP ELEC SS 1uF 50V 20% 85C CAP CER SMD 0.1uF 50V 20% Y5V 0603
<b><u>IR RECEIVER</u></b> D201	26-0941380-00-00	IR RX 940nm 37.9KHz SHIELD ST FM-7138TE5




<u>Reference No.</u>	<u>Part No.</u>	<u>Description</u>
<b>DIODES</b> D212,D214-D218 D220	20-0000000-00-13 20-3251902-00-01	DIODE SW 4NS DO35 1N4148 DIODE ZENER BZX55 5.1V 1/2W 5%
<b>ENCODER</b> M201	35-6001219-00-08	ENCODER ROTATRY L=20mm VER W/O CLICK
<b>TRANSISTORS</b> Q201  Q203,Q204,Q205,Q206	21-0100100-00-46  21-0000010-00-46	XTR SS PNP HFE 100 200MHz TO-92 A1015Y  XTR SS NPN HEF 100 200MHz TO-92 C1815Y
<b>RESISTORS</b> R201-R207,R213,R219,R223-R227, R229,R231,R232 R217,R218 R220,R253-R268 R221,R230 R222 R225,R234,R216 R233 R238 R241,R242 R251,R252 R269	44-0100220-51-00  44-0150120-51-00 44-0470120-51-00 44-0220120-51-00 44-0220020-51-00 44-0100120-51-00 44-0470220-51-00 44-0120220-51-00 44-0100020-51-00 44-0100520-51-00 44-0000027-11-00	RES SMD 10K OHM 5% 1/16W 0603  RES SMD 1.5K OHM 5% 1/16W 0603 RES SMD 4.7K OHM 5% 1/16W 0603 RES SMD 2.2K OHM 5% 1/16W 0603 RES SMD 220 OHM 5% 1/16W 0603 RES SMD 1K OHM 5% 1/16W 0603 RES SMD 47K OHM 5% 1/16W 0603 RES SMD 12K OHM 5% 1/16W 0603 RES SMD 100 OHM 5% 1/16W 0603 RES SMD 10M OHM 5% 1/16W 0603 RES SMD 0 OHM 5% 1/10W 0805
<b>TACT SWITCHES</b> S201-S219	35-1001117-00-67	SW TACT NO 1P1T 50mA/12V
<b>ICs</b> U201,U202 U203 U204-U207,U211  U208  U209  U210  U214	27-1086401-04-25 27-9630600-14-62 27-0540940-18-00  27-0140510-18-00  27-0324591-18-00  27-2300225-00-25  27-9810000-28-36	I.C. MCU SCRAM PLCC T89C51RD2-SL I.C. VFD DRIVER SMD QFP PT6306 I.C. SHIFT-AND-STORE BUS REGISTER HCF4094BM1  I.C. 8 CH ANALOG MUX/DEMUX SMD M74HC4051MIR  I.C. OCTAL BUS TRANSCEIVER 74VHC245M  I.C. EEPROM 2K BYTE 250nS PDIL AT24C16  I.C. RESET MONITORS TCM810LENB713
<b>VFD</b> VD201	41-4340100-00-13	VFD 16-BT-93GNK
<b>CRYSTALS</b> X201A,X202A	28-5200200-06-19	CRYSTAL 20.000MHz 30ppm HC-49S
<b>LED BOARD</b> <b>PCB ASSEMBLY</b>	80-0907730-32-00	LED ASSEMBLY

<u>Reference No.</u>	<u>Part No.</u>	<u>Description</u>
<b>LED</b> D211	26-0012587-01-10	LED RED-GREEN 5X807mm COMMON ANODE
<b>TACT SWITCHES</b> S220	35-1001117-00-67	SW TACT NO 1P1T 50mA/12V
<b>MAIN BOARD</b> <b>PCB ASSEMBLY</b>	80-0907730-00-00	MAIN ASSEMBLY
<b>CAPACITORS</b> C701,C705,C706,C716,C725 C702,C719,C723 C704 C707 C710 C711-C713 C715 C721,C724	22-3102032-30-28 22-3101022-30-13 22-3332042-30-35 22-3222042-30-49 22-3470052-00-43 22-3102052-30-28 22-4210502-00-31 22-3222032-30-28	CAP ELEC KM 1000uF 25V 20% 105C CAP ELEC KM 100uF 16V 20% 105C CAP ELEC KM 3300uF 35V 20% 105C CAP ELEC KM 2200uF 35V 20% 105C CAP ELEC SS 47uF 50V 20% 85C CAP ELEC KM 1000uF 50V 20% 105C CAP MPF 1uF 63V 5% DMF 5 SERIES CAP ELEC KM 2200uF 25V 20% 105C
<b>DIODES</b> D701-D710 D711 D715 D716-D718	20-1001401-20-44 20-3203102-00-01 20-5004700-50-02 20-3951943-50-01	DIODE RECT 1A/400V DO41 1N4004 DIODE ZENER BZX55 30V 1/2W 5% DIODE BRI 4A/70V RS402L DIODE ZENER ZY5.1 2W 10%
<b>TRANSISTORS</b> Q701	21-1011210-50-12	XTR PW PNP 1A/100V TO-126 2SD600KE
<b>REGULATORS</b> U701,U704-U706 U702,U707 U703	27-3000501-17-14 27-3001201-17-14 27-3101201-13-14	I.C. VOLT REG 5V 1A TO-220 NJM7805FA I.C. VOLT REG 12V 1A TO-220 NJM7812 I.C. VOLT REG TO-220F NJM7912
<b>MULTI-CH BOARD</b> <b>PCB ASSEMBLY</b>	80-0907730-64-00	MULTI-CHANNEL ASSEMBLY
<b>CAPACITORS</b> C607,C611,C612,C747-C754, C6201-C6215,C6217 C626 C627,C628,C633,C634 C6301-C6304 C677,C678,C689,C690 C757,C758  C759-C762,C769,C770,C773,C774 C763-C766 C767,C768,C771,C772	22-3220022-00-43 22-3221022-00-43 22-3101022-00-43 45-0104056-57-57 22-3470022-00-43 22-4282302-00-31 22-4210402-00-31 22-4247302-00-31 22-4233202-00-31	CAP ELEC GS 22uF 16V 20% 85C CAP ELEC SS 220uF 16V 20% 85C CAP ELEC SS 100uF 16V 20% 85C CAP CER SMD 0.1uF 50V 20% Y5V 0603 CAP ELEC SS 47uF 16V 20% 85C CAP MPF 0.082uF 63V 5% DMF 5 SERIES CAP MPF 0.1uF 63V 5% DMF 5 SERIES CAP MPF 0.047uF 63V 5% DMF 5 SERIES CAP MPF 0.0033uF 63V 5% DMF 5 SERIES

<u>Reference No.</u>	<u>Part No.</u>	<u>Description</u>
C775,C776,C755,C756 C6301-C6304	22-8226052-00-28 45-0104056-57-57	CAP ELEC 2.2uF 50V 20% NON-POLAR CAP CER SMD 0.1uF 50V 20% Y5V 0603
<b>DIODES</b> D601 D602,D604	20-0000000-00-13 20-3275902-00-01	DIODE SW 4NS DO35 1N4148 DIODE ZENER BZX55 7.5V 1/2W 5%
<b>INDUCTORS</b> L6101,L6102	24-0101108-00-28	IND CHOKE 100uH 10%
<b>RCA JACKS</b> M6101,M6103 M6102	34-4060420-00-60 34-4020320-00-60	RCA JACK 6 R-R-R/W-W-W RCA JACK 2 B/B GOLD RS-253G-02
<b>TRANSISTORS</b> Q6101	21-0000140-00-11	XTR SS NPN HFE 120 100MHz TO-92 SS8050C
Q6102	21-0100131-00-11	XTR SS PNP HFE 170 1.5A TO-92 SS8550C
Q6103	21-0100390-70-14	XTR SS PNP HFE 30 250MHz SPT DTA 114ESA
Q6104	21-0000400-70-14	XTR SS NPN HFE30 250MHz SPT DTC114ESA
Q6105,Q6106	21-0000360-00-00	XTR SS NPN HFE200-700 30MHz 2SC2878A
Q6107	21-0000450-70-14	XTR SS NPN 68 250MHz SPT DTA144ESA
Q6108,Q6109	21-0000120-70-14	XTR SS NPN HFE 68 30MHz SPT DTC144ES
<b>ICs</b> U6101,U6102	27-7661516-14-01	I.C. SOUND PROCESSOR VOL+TONE M61516FP
U6103	27-9496600-21-02	I.C. QUAD BILATERAL SWITCH LC4966
U6104-U6107	27-7055320-18-14	I.C. AUDIO LOW NOISE OP-AMP SMD NJM5532M
<b>PRE-OUT BOARD PCB ASSEMBLY</b>	80-0907730-63-00	PRE-OUT ASSEMBLY
<b>CAPACITORS</b> C637,C642,C647,C652,C657,C662, C667,C672,C700,C705	22-3100022-00-43	CAP ELEC SS 10uF 16V 20% 85C
C640,C645,C650,C655,C660,C665, C670,C675,C703,C708	22-3220022-00-43	CAP ELEC GS 22uF 16V 20% 85C
C679,C680,C691,C692	22-3470022-00-43	CAP ELEC SS 47uF 16V 20% 85C
<b>DIODES</b> D611-D614	20-0000000-00-13	DIODE SW 4NS DO35 1N4148
<b>INDUCTORS</b> L602-L609	24-0100127-00-28	IND CHOKE 10uH 10%



<u>Reference No.</u>	<u>Part No.</u>	<u>Description</u>
<b>RCA JACKS</b> M607,M609,M610 M608,M612	34-4040500-00-60 34-4020300-00-60	RCA JACK 4 R-W/R-WRS-413G-08 RCA JACK 2 B/B RS-213G-02
<b>TRANSISTORS</b> Q608-Q615,Q617,Q629,Q630,Q632,Q633  Q616,Q618,Q620,Q622,Q624,Q631	21-0000350-70-00  21-0100390-70-14	XTR SS NPN HFE200-700 30MHz SPT RN1241A  XTR SS PNP HFE 30 250MHz SPT DTA 114ESA
<b>RESISTORS</b> R635,R642,R647,R654,R659,R666, R678,R694,R701 R636,R643,R648,R655,R660,R667, R672,R679,R695,R702	23-1220102-00-00  23-1330002-00-00	RES MF 2.2K OHM 1% 1/6W  RES MF 330 OHM 1% 1/6W
<b>ICs</b> U609-U613	27-7055320-18-14	I.C. AUDIO LOW NOISE OP-AMP SMD NJM5532M
<b>PSU BOARD</b> <b>PSU ASSEMBLY *AH</b> <b>PSU ASSEMBLY *C</b>	80-0907730-01-00 80-0907730-01-01	PSU ASSEMBLY PSU ASSEMBLY
<b>CAPACITORS</b> C752 C753 C763	22-3476052-00-43 22-4210202-00-31 22-1103960-37-71	CAP ELEC SS 4.7uF 50V 20% 85C CAP MPF 0.001uF 63V 5% DMF 5 SERIES CAP CER 0.01uF 250VAC 20%
<b>DIODES</b> D751,D756 D752-D755	20-0000000-00-13 20-1001401-20-44	DIODE SW 4NS DO35 1N4148 DIODE RECT 1A/400V DO41 1N4004
<b>FUSES &amp; FUSES HOLDER</b> F751*AH F751*C F752*AH F752*C  FH751*AH FH751*C, FH752	33-0321111-00-88 33-0161006-00-88 33-0111006-00-88 33-0151006-00-48  33-1100000-00-88 33-1000000-00-88	FUSE 20A 250V SLOW BLOW 6X32mm 6S UL/CSA FUSE 10A/250VAC TIME-LAG 5 X 20mm UL/VDE 5D FUSE 1.6A 250V TIME LAG LBC 5x20mm 5T UL/CSA/VDE/SEMKO FUSE 800mA 250V TIME LAG LBC 5x20mm TSD UL/CSA/VDE/SEMKO  FUSE CLIP 0.05mm FOR 6mm FC-63-11 FUSE CLIP 0.05mm FC-53-11
<b>TRANSISTOR</b> Q751	21-0000010-00-46	XTR SS NPN HEF 100 200MHz TO-92 C1815Y
<b>RESISTORS</b> R751	23-5228330-00-00	RES FUSIBLE 0.22 OHM 10% 1/2W

Reference No.	Part No.	Description
R754 	23-8395232-00-06	COND PATH RESISTOR 3.9M OHM 1/2W 5% RNV1/2
<b>STANDBY TRANSFORMER</b>		
T751	25-0040021-31-18	XFOFMER PW EI-35 100V/220V T05382B
<b>RELAY</b>		
T751	32-3112210-00-40	RELAY POWER DC12V 20A 220VAC 1P1T
<b>POWER SWITCH BOARD</b>		
<b>PCB ASSEMBLY</b>	80-0907730-48-00	POWER SWITCH ASSEMBLY
<b>CAPACITOR</b>		
C764 	22-1103960-37-71	CAP CER 0.01uF 250VAC 20%
<b>POWER SWITCH</b>		
S751 	35-0101109-00-78	POWER SWITCH TV-8 10A/250VAC PS3-22SPA-P7AA
<b>SECONDARY BOARD</b>		
<b>PCB ASSEMBLY</b>	80-0907530-27-00	SECONDARY ASSEMBLY
<b>CAPACITORS</b>		
C801-C804	22-3123072-00-41	CAP ELEC LP 12000uF 80V 20%
<b>DIODES</b>		
D801,D802	20-5125401-50-02	BRIDGE RECTIFIER 25A 400V MP254W BR-25W
<b>SPEAKER BOARD</b>		
<b>PCB ASSEMBLY</b>	80-0907730-67-00	SPEAKER ASSEMBLY
<b>SPEAKER TERMINAL</b>		
M5101,M8101,M5102	34-3000021-00-80	SPEAKER TERMINAL 6P BINDING R/B
<b>S-VIDEO BOARD</b>		
PCB ASSEMBLY	80-0907730-26-00	S-VIDEO ASSEMBLY
<b>CAPACITORS</b>		
C4101-C4107,C4109-C4111,C4113-C4115,C4117-C4120,C4153,C4157	22-3226052-00-43	CAP ELEC SS 2.2uF 50V 20% 85C
C4108,C4112,C4116,C4156	22-3471012-00-28	CAP ELEC GR 470uF 10V 20% 85C
C4123,C4124	22-3221012-00-43	CAP ELEC SS 220uF 10V 20% 85C
C4134,C4145,C4149,C4158	22-3101012-00-43	CAP ELEC SS 100uF 10V 20% 85C
C4136,C4146	22-4247402-00-31	CAP MPF 0.47uF 63V 5% DMF 5 SERIES
C4137,C4133,C4141	22-3106052-00-43	CAP ELEC SS 1uF 50V 20% 85C
C4138	22-7200210-00-09	CAP TRIMMER 20pF 20%
C4144	22-3477052-00-43	CAP ELEC SS 0.47uF 50 20% 85C
C4150	22-3470022-00-43	CAP ELEC SS 47uF 16V 20% 85C
C4151	22-3100022-00-43	CAP ELEC SS 10uF 16V 20% 85C

<u>Reference No.</u>	<u>Part No.</u>	<u>Description</u>
<b>DIODES</b> D4101-D4107	20-0000000-00-13	DIODE SW 4NS DO35 1N4148
<b>INDUCTORS</b> L4101 L4102	24-0569107-00-28 24-0220107-00-28	IND CHOKE 5.6uH 10% IND CHOKE 22uH 10%
<b>DIN JACKS</b> M411-M418	34-4110300-00-60	DIN JACK 1 BLACK PCB MOUNT MD-113
Q4101,Q4103,Q4122,Q4131	21-0000120-70-14	XTR SS NPN HFE 68 30MHz SPT DTC144ES
Q4102	21-0000450-70-14	XTR SS NPN 68 250MHz SPT DTA144ESA
Q4107-Q4112,Q4116-Q4119	21-0100370-70-14	XTR SS PNP HFE 270-560 140MHz 2SA933AS
Q4113,Q4114,Q4121,Q4124,Q4125, Q4128,Q4130,Q4133	21-0000360-00-00	XTR SS NPN HFE200-700 30MHz 2SC2878A
Q4115,Q4126,Q4127	21-0000390-70-14	XTR SS NPN HFE270-560 180MHz 2SC1740S
Q4120,Q4123	21-0000380-70-14	XTR SS NPN HFE20 250MHz DTC-123ESA
Q4132	21-0000010-00-46	XTR SS NPN HEF 100 200MHz TO-92 C1815Y
<b>SLIDE SWITCH</b> S4101	35-4102209-00-67	SW SLIDE 2P2T RIGHT L=9
<b>ICs</b> U4101 U4102,U4103 U4104	27-5574763-21-02 27-5076250-21-23 27-9496600-21-02	I.C. OSD DIP30SD LC74763-9012 I.C. AV SWITCH DIP BA7625 I.C. QUAD BILATERAL SWITCH LC4966
<b>CRYSTALS</b> X4101 X4102	28-5143200-06-19 28-5177200-06-19	CRYSTAL 14.318MHz 30ppm HC-49S CRYSTAL 17.73447MHz 30ppm HC-49S
<b>TRIGGER BOARD PCB ASSEMBLY</b>	80-0907730-68-00	TRIGGER ASSEMBLY
<b>DIODES</b> D351-D353 D354-D358,D3501-D3504	20-3251902-00-01 20-0000000-00-13	DIODE ZENER BZX55 5.1V 1/2W 5% DIODE SW 4NS DO35 1N4148
<b>PHONE JACKS</b> M351-M357	34-4310300-00-60	PHONE JACK 1 BLACK PCB MOUNT 3.5mm
<b>TRANSISTORS</b> Q351,Q352	21-0000380-70-14	XTR SS NPN HFE20 250MHz DTC-123ESA
<b>RESISTORS</b> R358-R360	23-2121250-00-00	RES MO 120 OHM 5% 2W

<u>Reference No.</u>	<u>Part No.</u>	<u>Description</u>
<b>SLIDE SWITCH</b> S351	35-4102209-00-67	SW SLIDE 2P2T RIGHT L=9
<b>REGULATORS</b> U3501,U3502	27-3001201-17-14	I.C. VOLT REG 12V 1A TO-220 NJM7812
U352	27-3001201-07-85	I.C. VOLT REG 12V 0.1A TO-92 LM78L12
<b>VIDEO-6 BOARD</b> <b>PCB ASSEMBLY</b>	80-0907730-45-00	VIDEO-6 BOARD
<b>CAPACITORS</b> C4401,C4402,C4403	22-3226052-00-43	CAP ELEC SS 2.2uF 50V 20% 85C
<b>JACKS</b> M4401	34-4010000-01-60	RCA JACK 1 YELLOW PCB MOUNT GOLD
M4404	34-4010100-01-60	RCA JACK 1 RED PCB MOUT GOLD
M4403	34-4010200-01-60	RCA 1 WHITE PCB MOUNT GOLD
M4402	34-4110300-00-60	DIN JACK 1 BLACK PCB MOUNT
J4401	34-4510302-01-80	PHONE JACK D6.3 1 PCB MOUNT GOLD
<b>COMPOSITE VIDEO BOARD</b> <b>PCB ASSEMBLY</b>	80-0907730-66-00	COMPOSITE VIDEO ASSEMBLY
<b>CAPACITORS</b> C4201-C4203,C4205,C4207,C4209, C4210,C4216,C4217	22-3226052-00-43	CAP ELEC SS 2.2uF 50V 20% 85C
C4204,C4206,C4208,C4211,C4218	22-3471012-00-28	CAP ELEC GR 470uF 10V 20% 85C
<b>RESISTORS</b> J4201,J4202	44-0000027-11-00	RES SMD 0 OHM 5% 1/10W 0805
<b>RCA JACKS</b> M421,M422	34-4040020-00-60	RCA JACK 4 Y-Y/Y-Y PCB MOUNT GOLD
M423	34-4010000-00-60	RCA 1 Y PCB MOUNT GOLD RS-146G/Y
<b>TRANSISTORS</b> Q4201-Q4203,Q4207,Q4208	21-0100370-70-14	XTR SS PNP HFE 270-560 140MHz 2SA933AS
Q4204,Q4206	21-0000120-70-14	XTR SS NPN HFE 68 30MHz SPT DTC144ES
Q4205	21-0000450-70-14	XTR SS NPN 68 250MHz SPT DTA144ESA
<b>TRANSISTORS</b> U4201	27-9496600-21-02	I.C. QUAD BILATERAL SWITCH LC4966
U4202,U4203	27-5076250-21-23	I.C. AV SWITCH DIP BA7625

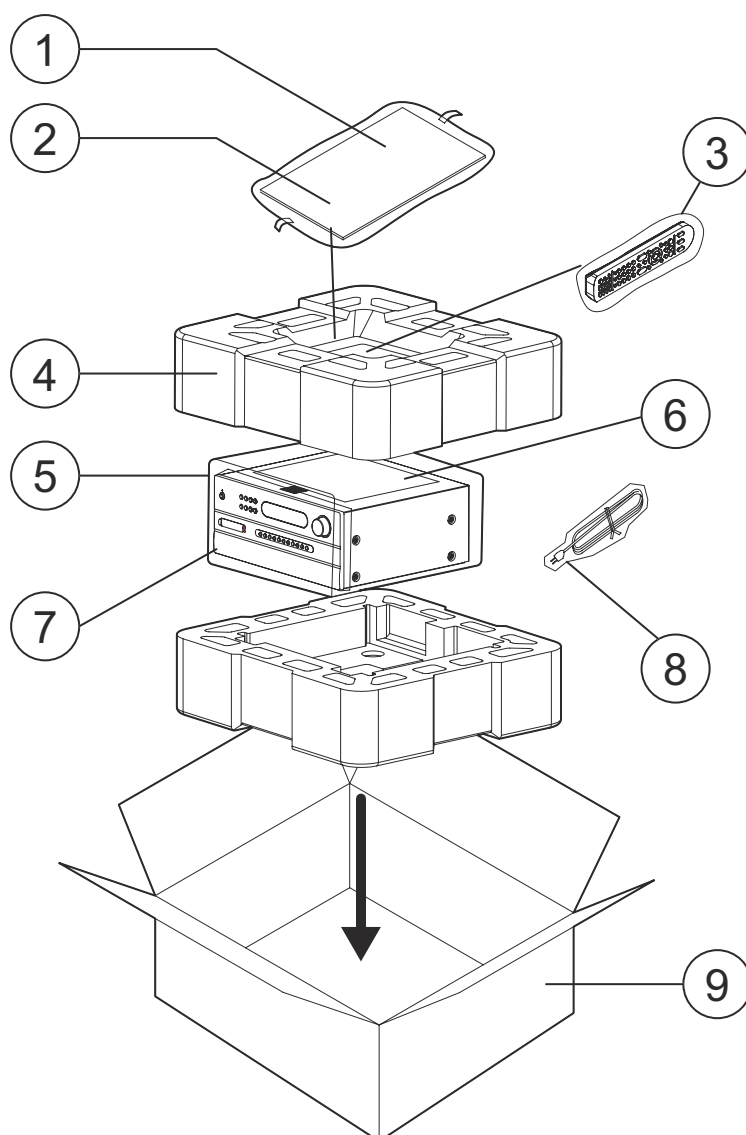
**NOTE: THE COMPONENTS IDENTIFIED BY ⚠ MARK ARE CRITICAL FOR RISK OF FIRE AND ELECTRICAL SHOCK. REPLACE ONLY WITH PART NUMBER SPECIFIED.**



<\*AH > : USA, CANADIAN MODEL ONLY.

<\*C > : EUROPEAN MODEL ONLY.

RESISTORS: MO-METAL OXIDE, RN-CERAMIC CASE, MF-METAL FILM.

## PACKING DIAGRAM & PARTS LIST



Item	Part No.	Description	Qty.
1	64-0200001-01-00	POLYBAG MANUAL	1
2	31-6407520-00-98	FM WIRE ANTENNA	1
	31-6472801-00-28	AM LOOP ANTENNA W/STAND	1
	34-0081004-00-67	300 TO 75 OHM ADAPTER	1
	37-0240300-00-81	LITHIUM BUTTON CELL CR2025	1
	61-0773004-40-99	OWNER'S MANUAL T773 GB/F/D/NL	1
	61-0773004-41-99	OWNER'S MANUAL T773 E/I/P/S	1
	83-0762000-00-04	REMOTE CONTROLLER NAD ZR-2	1
	37-0020200-00-79	BATTERY AAA 1.5V ER03X	4
	65-0752000-00-98	WARRANTY CARD	1
3	83-0752000-01-04	REMOTE CONTROLLER NAD HTR-2	1
4	63-0773001-00-01	POLYFOAM TOP / BOTTOM T773	2
5	64-0762001-00-00	POLYBAG MAIN UNIT	1
6	65-0752070-00-99	A3 WHITE PAPER	1
7	64-0762000-00-00	EPE PROTECTIVE COVER	1
8 *AH 	36-2881010-07-97	POWER CORD 110V 3PINS 15A/125V UL/CSA	1
*C 	36-2983110-07-97	POWER CORD CE 3 PINS 16A 250V	1
9	67-0773000-10-99	MASTER CARTON BOX T773	1

## VERSION HISTORY

<u>SERIAL NUMBER</u>	<u>SOFTWARE VER.</u>	<u>PCB ASSEMBLY VERSION</u>
R38T77300001-R38T77300002	V.123	ALL ARE ISSUE 3
R38T77300003-R38T77300017	V1.24	ALL ARE ISSUE 3
R38T77300018-R38T77300500	V1.26	DSP BOARD ISSUE 5, ALL OTHERS ISSUE 4
R3XT77300501-R3XT77301100	V1.26	DSP BOARD ISSUE 5, ALL OTHERS ISSUE 4
R3YT77301101-R3YT77301600	V1.26	ONLY AUDIO/S-VIDEO/MULTI-CH BOARDS ISSUE 4, ALL OTHER ISSUE 5
R3ZT77301601-R3ZT77301850	V1.26	ONLY AUDIO/S-VIDEO/MULTI-CH BOARDS ISSUE 4, ALL OTHER ISSUE 5
R3ZT77301851-R3ZT77301860	V1.26	ONLY AUDIO/S-VIDEO/MULTI-CH BOARDS ISSUE 4, ALL OTHER ISSUE 5
R3ZT77301861-R3ZT77301960	V1.26	ONLY AUDIO/S-VIDEO/MULTI-CH BOARDS ISSUE 5, ALL OTHER ISSUE 6

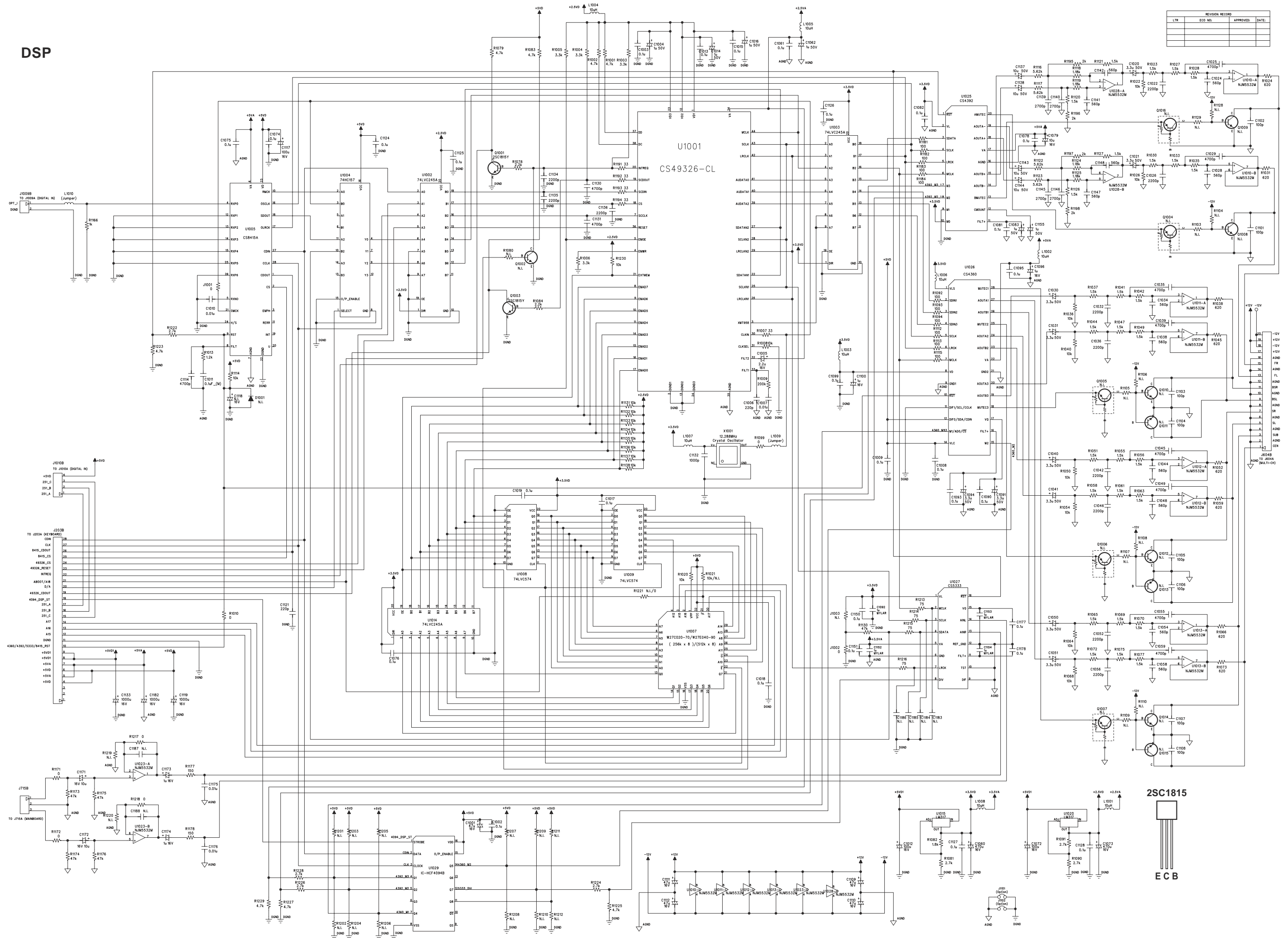
**REMARK:** PCB Number 55-0773XXX-XX-00 = ISSUE 3 OR 4,  
PCB Number 55-0773XXX-XX-01 = ISSUE 5,  
PCB Number 55-0773XXX-XX-02 = ISSUE 6.

# SERVICE MANUAL

**T 773**

**AV Receiver**

## DSP

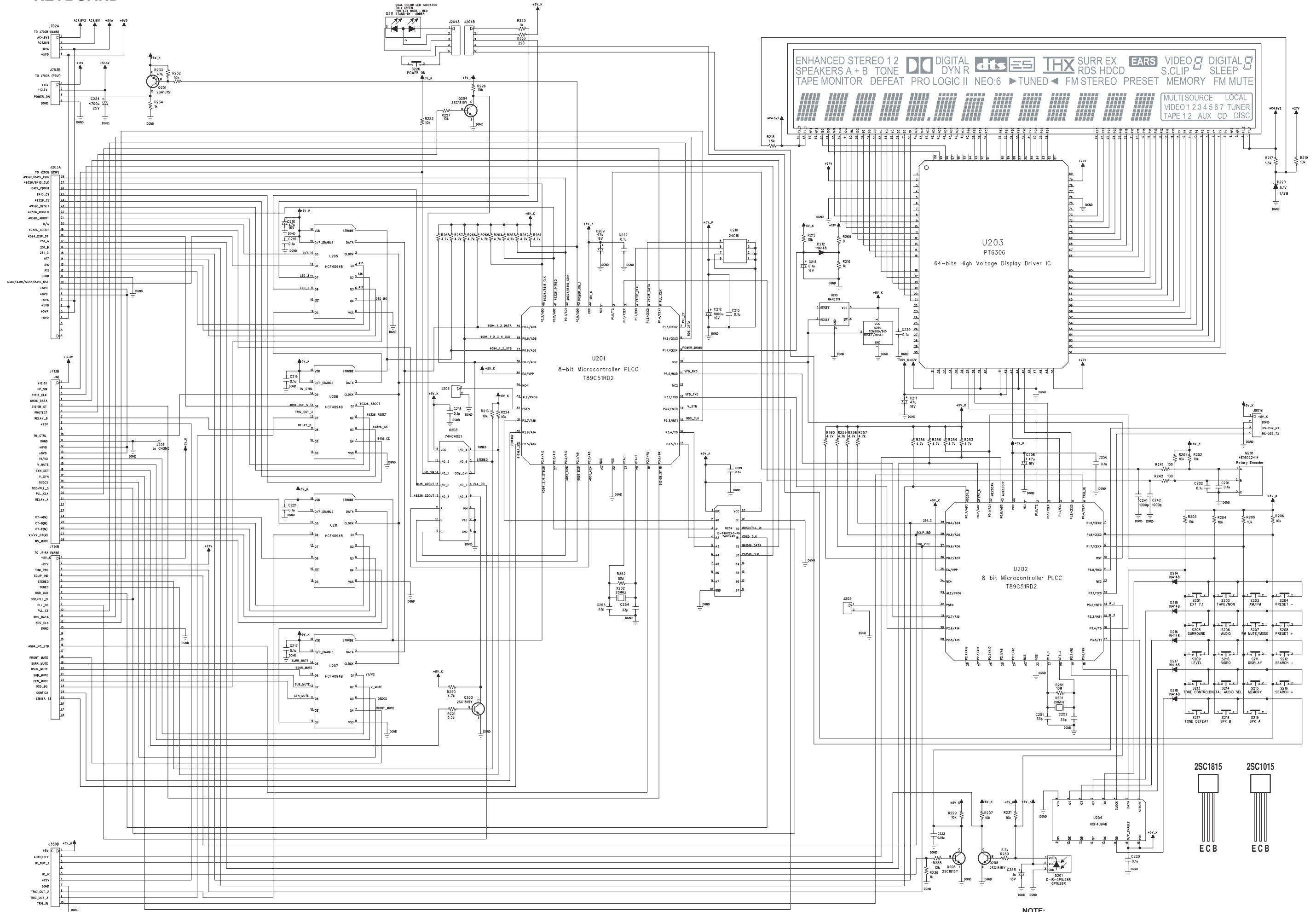


**NOTE:**

1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.
2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.



## KEYBOARD



# MULTI-CH

